Gemology

An Annotated Bibliography

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Gemology

An Annotated Bibliography

Volume 1

By
JOHN SINKANKAS



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TO

MARJORIE

This Calculus they say

Is no more than Lime

Linked by Rime

Cosseted by Ocean's Curl

Yet see how from Ingredients Mean

Arises a Wondrous Sheen -

The Pearl.

J.S.

Foreword

Richard T. Liddicoat
Chairman of the Board of the
Gemological Institute of America,
Santa Monica, California

Gemstones and gemology have been of special interest to writers for many centuries. From the time of Pliny during the ascendancy of Rome in the first century, until the 16th century, there was relatively little written that has been preserved. In the last half century, that scenario has changed dramatically. Gem publications have proliferated.

It was more than thirty years ago that I first became aware of John Sinkankas, probably first as an exceptional student of the Gemological Institute of America (he earned his diploma in 1951), but soon thereafter as the writer of the authoritative *Gem Cutting*, now in its third edition and last year published in Russian by the Soviet Government for wide distribution throughout the USSR. Most persons involved in gemology now are very familiar with his name, primarily for his outstanding contributions to the gemological literature. His books have been exceptionally well researched and well received. In recognition of his work, The Gemological Institute of America presented him with its Distinguished Associate Award during its Gemological Symposium held in Los Angeles in 1982.

Perhaps even more important historically than his excellent books and journal articles, will be the monumental effort that he has made in collecting all of the important books on gems, as well as everything of importance related to the subject. The Gemological Institute of America is fortunate indeed to have become the repository of the magnificent Sinkankas Library which he accumulated over a period of four decades.

When I was first introduced to John Sinkankas, he was still on active duty in the U.S.Navy in the rank of commander. I remember being impressed by the thoroughness with which he undertook any gemologically-related project. Before the publication of *Gem Cutting*, his first book, that field had been relatively devoid of any truly instructive manual. Being an innovative and exceptionally competent lapidary, he was well qualified to write on the subject. A number of his cut gems are on display in the Smithsonian Institution and were so large in size that he had to design special equipment to handle their cutting. In addition to his skills in lapidary work, Sinkankas is also a superb watercolorist as attested by his color illustrations in his *Gemstones of North America* and more recently in the highly acclaimed *Emerald and Other Beryls*.

Accumulation of the Sinkankas Library began with his *Gem Cutting* and reached full proportions in researching the literature for his *Gemstones of North America* series. In my opinion, no one is more familiar with the gemological literature, not only in English, but in every other language in which gemological publications have appeared. If the present bibliography did nothing more than to catalog the books and articles that have been written on gemological subjects, it would be of enormous value by itself. But more importantly, Sinkankas has undertaken to summarize the many publications that appear herein and to evaluate their merits and limitations. The unique aspect is the unusual attention devoted to each acquisition. Every new article or book became the subject of careful study and assessment of the salient contributions the document made to our fund of gemological knowledge. This is especially important in view of the enormous number of books and key articles that have appeared in the latter half of our present century. Some early monumental works, such as those of Max Bauer of Germany, principally his Edelsteinkunde, are still exceedingly valuable, but those of greater importance to today's gemologists are the works that appeared latterly in the century and which are carefully evaluated herein.

One of the essential elements of the Sinkankas Library that is reflected in this bibliography is the wide spectrum of works included from fields that are related in some way to gemology but are not ordinarily included in that discipline. Here we can find books and articles on jewels and jewelry making, on many aspects of lapidary work, including engraving of gems, the study of engraved gems, collections of gemstones and engraved gems, and reminiscences of numerous persons who in some way were connected with gems and the gem industry. In all there are about 7500 entries in this invaluable reference, almost all items receiving the candid view of Sinkankas as to their cogency, accuracy, and ultimate value to the usual reader.

The monumental work that follows fills a long-existing need for a readily consulted source of information on the literature of gemology; it is the first gemological bibliography worthy of that name ever to be published.

Preface

Because gems and precious stones have been known since antiquity it is not surprising to find in existence a large number of books devoted to their study and description. What is surprising, however, is that no comprehensive descriptive/analytical bibliography about them has ever been published. To be sure one can find reference lists, some of fairly large size, in older and current gemological treatises, but by far most entries are restricted to names of authors, short titles, and years of publication. Sometimes, and then mostly for periodical articles, paginations are furnished which serve to give the researcher some idea of the wordage. This almost incredible state of affairs I discovered for myself upon researching the literature for my first book, *Gem Cutting, A Lapidary's Manual,* published in 1955 after some five years of preliminary work. I obtained my first clues to the size of the literature through the simple lists published in Harry Emanuel's *Diamonds and Precious Stones*, 1865, and the much longer list of over 1200 entries in J G Escard's *Les Pierres Precieuses*, 1914, and in more recent times, the lists in Wirt Tassin's and G P Merrill's catalogs of the Smithsonian Natural History Museum's gem collections published in 1902 and 1922 respectively. Most useful because considerable care had been expended upon the choices contained therein are the chronological-subjective lists contained in G F H Smith's *Gemstones*, from the 1940 edition onwards. As to comments upon texts and the competence of the authors, I found some help in the entries furnished in better class bookseller catalogs, but even here these were largely borrowed from others and tended to uncritically parrot information from writers who often had no personal knowledge of gemology.

The very incompleteness of such entries aroused my curiosity and led to acquisition of as many books as I could find upon the subjects included in the broadest definition of gemology. In the long run, acquiring books for my library proved to be the wisest course that I could have followed in view of my continued interest in the subject and the numerous writings that I have published which directly depended upon the immediate availability of needed references. To anyone who proposes to write within a relatively narrow field, the creation of a personal library, despite its seemingly high initial cost is actually the most economical course of action, saving as it does much time that otherwise would have been spent on travel, not to mention associated expenses and frustrations. At a very early stage I determined to not only keep careful records of acquisitions but also to study and describe the books and articles as they came in, and to assess their worth, maintaining for this purposes both a card file and a series of typewritten notes. It is for this reason that the bibliography is as long as it is, after all, one can discover much information during a span of nearly forty years. Even so I am not sure that I have included every worthy title in my bibliography, but I believe the most important are present, and in any case, far more than can be found in any source elsewhere.

In my examinations of books it soon became obvious that those manufactured in the recent era of perishable paper in many cases were already in their last stages of deterioration as one may find for himself in examining copies of such actually important books as the precious stones series written by Edwin W Streeter, an affluent London jeweler whom one would have expected to demand higher quality raw materials to match the quality of his prose. Alas, for some reason this was not to be until several editions had been published, all on incredibly poor paper, now so embrittled that it is impossible to even repair them. Others in the same sorry state of decay were published in the Bohn Library series, as for example those written by C W King and others. For purposes of preserving the image of such works, if not the body, I have spent considerable wordage upon the description of such copies known to be complete, including details on cloth types, colors, lettering, ornamentation, beveled edges, and endpapers. In many places I have indicated

those worthy books in this class that some philanthropically-minded individual could do all of the literary world a favor by facsimile reprinting before it is too late. Like others in the community of book connoiseurs, I am deeply saddened by the grievous mistakes made in the manufacture of books and mourn their passing as physical objects, but by means of this bibliography, at least some will be kept alive in spirit if not in body.

Acknowledgements

Every bibliography ultimately must depend upon the resources and the cooperation of a host of booksellers throughout the world who take the trouble to uncover hoards of books, display them on their shelves, or offer them through simple lists or elaborate descriptive catalogs. This bibliography is no exception. Consider the descriptive catalog; it is, to be sure, a means of livelihood for its creator but it is also the final product of considerable research by which the bookseller is able to describe his copy, note its faults and lacunae, compare it with other copies that he has knowledge of, and then cite authorities who criticize the work and weigh its value. In many instances, where I could not personally find some rare work, I gladly consulted such catalog entries and used the information therein to amplify my own entry, or, in some instances, to acknowledge that the bookseller's entry is my sole source of information.

Among the host of booksellers whose shops I have visited here and abroad I recall with special fondness and gratitude the small shop of the late Malcolm Gardner in London who dealt exclusively in books on gems and horology, issued catalogs, and even took pains to inform me of books that I was especially looking for. In the recuperative years after World War II, all of England seemed to be disgorging splendid volumes which were sold at low prices domestically and abroad. Books on engraved gems, gemstones in general, mineralogies, some very rare, the works of Robert Boyle, Tavernier's Travels, and so on, could be found in the shops of Maggs, Quaritch, Sawyer, Crow, Foyle, Sotheran, and many others, especially concentrated in the Charing Cross Road area and its celebrated alley, Cecil Court. In the last, in a tiny shop, E Seligman often was able to uncover a rare treasure for me in every visit. Other cities in England and Scotland were similarly productive, especially Edinburgh, York, Oxford and Cambridge, Bath, and the small cities along the south coast with Brighton being the foremost in terms of quality shops. Valuable finds were also made in the numerous shops of Left Bank Paris, Heidelberg, Munich, and Hamburg in Germany, and also in Brussels and Amsterdam. Particularly rich finds were uncovered in Copenhagen which, like Stockholm, is generously supplied with excellent bookshops that cater to every class and purse. Rönnell and Björk & Börjesson in Stockholm particularly supplied me with gemological treatises of interest and usefulness.

In the United States, shops that dependably supplied me with works on gemology and mineralogy include Morrill's of Boston, now moved to the suburbs, Argosy in New York, the famous shop on Fifth Avenue of Dauber & Pine, no longer in existence, and especially the lower Manhattan shops along Fourth Avenue in the days when they were allowed to exist in modest buildings at low rentals. In this area Stechert & Hafner sold scientific books, especially in the earth sciences, and many of my more valued books were found here, especially those in foreign languages. Similar bookshops were once to be found in low rental areas of Philadelphia, Baltimore, and Washington, D C, the latter furnishing many books to my library incident to spending two tours of duty in the Pentagon and Navy Department. It was here that I met and formed a friendship with Cedric Gleason who often accompanied me on frequent weekend scourings of the Capitol shops, Of direct aid to my bibliography project was the friendship and interest of Dr William F Foshag, Curator of Mineralogy in the U S National Museum whose keen interest in the literature of gemology led to the formation of a very large card-file on gem minerals by researchers subsidized by the government in the Post-Depression era. From this file I was able to obtain many leads to gemological articles in obscure journals and books that had escaped the notice of reviewers.

Another invaluable source of gems books was the late Dr Daniel Willems of Chicago who sold items from a modest but carefully selected stock in an office building in downtown. His annotated catalogs are now valued because of their rarity and their perceptive comments. The late Dr H C Dake, founder and editor of the now defunct *Mineralogist Magazine* of Portland, Oregon was also an avid book collector who eventually dispersed his personal library from which I was able to obtain prized volumes from time to time. Many books on engraved gems were obtained directly and via other channels from the collection of the late Dr Ralph Mueller of Kansas City, who is said to have issued a carte blanche order to British booksellers after World War II to buy up all gemological and engraved gem books that they could lay their hands on. As a consequence, he soon acquired a large library rich in books on engraved gems for which, unfortunately, there was little demand at the time. One of the buyers of the Mueller books was the eminent Los Angeles jeweler D B Howes, who one day sold to me his entire stock of books in foreign languages, among which were many of the selfsame works on engraved gems. This lot greatly enhanced my personal library in this subject and formed the basis for the many books on engraved gems that appear in the main bibliography. Also on the West Coast, booksellers in Seattle, San Francisco, and Los Angeles furnished

numerous additions to the library, with the catalogs of Zeitlin & Verbrugge in Los Angeles being especially helpful because of their scholarly descriptions and dissertations.

My most fruitful library visits were to the Mineralogical Library in the British Museum (Natural History) in London where entry was kindly arranged through the good offices of Mr Peter G Embrey, who also provided accomodations during our frequent stays in London, and Mrs Aileen Brunton, librarian, who was unfailingly helpful in directing me to the treasures of a library shelved in a splendidly appointed chamber conducive to quiet, uninterrupted study. It is without doubt one of the finest mineralogical libraries anywhere. Although encompassing all of geology and mineralogy, perhaps with less attention paid to the literature of mineralogy than has been noted for the British Museum library above, the U S Geological Survey Library contains the famous collection of gemological books formed by Dr G F Kunz and given to the survey by his daughter many years ago while the library was still housed in the U S Department of the Interior in Washington, D C. It was here that I first made its acquaintance and later, as this bibliography reached its closing stages, to visit for three weeks running the Kunz Collection in its own rare book room in the new headquarters of the Survey in Reston, Virginia. I owe Mr George Goodwin, past Librarian, my thanks for providing a study desk and unlimited access to the collection as well as to volumes in the main collection. Lastly, equal courtesies were extended to me in the Library of Congress, Washington, D C, wherein a desk also provided under the enormous dome of the Main Reading Room. My only regrets during the Washington visits were in examining so many volumes in the Kunz Collection and in the Library of Congress that were manufactured from perishable materials and which are now rapidly disintegrating. Apparently budgetary restraints prohibit more than necessary repairs and rebindings of important books in disciplines other than gemology.

Other libraries and collections that I was privileged to examine include that of the Gemmological Association of Great Britain and also in London, that of the Industrial Diamond Information Bureau. In the United States the library of the Gemological Institute of America provided several important books for study as did the small but important natural history library in the Natural History Museum, San Diego. Individuals who aided my efforts by supplying me with notes, lending me copies of books, or allowing me to visit and examine their personal libraries include Ian Balfour in London, noted for his work on famous diamonds, Ove Dragsted in Copenhagen, court jeweler, Peter G Embrey in London, sometime Curator of Minerals in the British Museum (Natural History), and in New York City, the library of Carl Krotki formed simultaneously with my own, and also the more recently formed splendid personal libraries of Mr Richard Hauck of Bloomfield and Mr Herbert Obodda of Short Hills, New Jersey. In the American Museum of Natural History in New York City I was able to examine their set of the elephant folio volumes of Heber R Bishop's jade catalog through the courtesy of Dr George E Harlow of the Department of Mineralogy. In Santa Barbara, the small but choice collection of books on mineralogy and gemology owned by Dr F H Pough, formerly of the American Museum of Natural History and later Director of the Santa Barbara Natural History Museum also furnished me valuable information on books I had not been able to acquire for my own collection, and similarly, visits to and examinations of the primarily geological libraries of Dr H Stanton Hill of Altadena and John G Streeter of San Diego, California also uncovered several important additions. Several valuable pamphlets on the gem mines of San Diego County were found in the library of Wayne Leicht in Laguna Beach, California which is especially rich in mineralogical literature. Elsewhere, Dr Patty C Rice of Mt Clemens, Michigan sent me notes on uncommon amber books which she uncovered during her researches for her own treatises on the subject.

The illustrations herein are largely owing to the staff of the Gemological Institute of America, through the kind permission of Mr William E Boyajian, President, and Ms Dona M Dirlam, Librarian, with photography by Mr Robert Weldon, Slide Librarian. Mr Charles S Hutchinson, President of Geoscience Press, Prescott, Arizona kindly consented to provide editorial guidance and made arrangements for publication of the work by Scarecrow Press. The typescript was optically/ electronically scanned by Milton Hornbostel of Scanmasters, Littleton, Colorado. Book design was provided by Joanna Hill Design, Boulder, Colorado.

Lastly I thank once more my wife Marjorie for her unremitting encouragement and arranging for and accompanying me on the numerous short and extended trips together to book shops, libraries, and private collections the world over. Without her help this bibliography could not have been completed.

Scope

While this is the first bibliography on gems and gemology to be published, aside from the simple lists that are furnished in books from time to time, the matter of choosing works for inclusion proved to be less simple than it appeared at first. As the reader will find there are many evolutionary-peripheral topics in the bibliography, for example, engraved gems, crown jewels, curious lore, and biographies among others. Two criteria were applied before a work was considered for inclusion, the first that was applied related to size, and the second to the pertinancy of the subject matter. The size exclusion is necessary

to eliminate the enormous number of trivial articles in journals that do no more than parrot better information to be found in standard works. Thus a limit of fifteen pages of text and illustration was used as the bottom cut-off but numerous exceptions to this rule were made on the basis of the merit of the contribution. Thus a five-pages article announcing the cause of color in precious opal, a problem that has vexed scientists for several centuries, clearly merits inclusion despite its brevity. In regard to subject matter qualifying for inclusion, the problems are more difficult as discussed below.

The scope of topics related to gems and gemology is understandably very large when it is considered that gems are among the most ancient of personal adornments known, their use traceable to some dim age beyond at least 5000 BC. In ancient societies they not only were worn as marks of wealth but also were used as symbols of authority or incorporated in amulets and other charms. Little has changed in the many intervening years except that many more gemstones have been found, more skills have been exerted upon their shaping and polishing, and some special properties inherent in certain gemstones are now taken advantage of in a host of electronic applications which caused the development of large industries devoted to the manufacture of synthetic gemstones. The pervasion of gems and gemstones throughout society is so complete that one can scarcely find any aspect of it, cultural or technological, that is free from their use or allusion to them. Consider Shakespeare for example, whose numerous writings contain so many references to gemstones that the indefatigable George F Kunz was moved to compose his *Shakespeare and Precious Stones*, 1916, a modest volume of 102 pages which uniquely collects such references, and provides brief commentaries. John Ruskin, England's noted art and social critic, wrote a fine work on minerals and gemstones entitled *Deucalion*, 1879, in which the two volumes clearly express his great love of agates and other ornamental stones. These he collected zealously, and from time to time, he presented them to boy's schools for study purposes. Other examples of peripheral works that are outgrowths of the central theme of gemology include books describing the discovery of diamonds in South Africa, and others that detail vividly the aftermath, as in Anthony Trollope's *South Africa*, 1877, in which he explains how the British defeated the Boers to retain control over the wealth in diamonds and gold. In speaking of diamonds, descriptions of the large, famous cut stones must inevitably bring in peripheral matter on the persons associated with their procurement, cutting, and sale, and for this reason a book such as Evalyn Walsh McLean (and Boyden Sparkes) *Father Struck it Rich*, 1936, in which an important segment of the history of the Hope diamond is furnished becomes eligible for inclusion.

However, it is not the purpose of this section to survey the works of peripheral nature that may be found herein, and the reader is directed toward the detailed subject index at the end which serves as a finding list for reference and research. Here he will note several large categories of books that caused me much cogitation before it was decided to include them. The first and largest comprises works on engraved gems such as cameos and intaglios but also includes those on scarabs and seal cylinders. Books in this category seldom are noticed in journals and other literature usually read by jewelers, gemologists, and earth scientists, and instead are almost exclusively reviewed in archeological, ethnographical, historical or art journals. To be sure, such works vary considerably insofar as contents of interest to the gemologist are concerned, some barely mentioning the stones from which the gems are cut, while others go to the other extreme by providing commendable essays on gemstones as a whole even to explaining the processes used in engraving gems. While the latter class of engraved gem book clearly merits entry in the bibliography, the previous class, meager in gemological content, if any is present, may not. Nevertheless it was decided to include them all if for no other reason than that they deal with gem materials. Furthermore the appelation of "gem" is quite appropriate when it is considered how many cameos, intaglios, and even scarabs found their way into rings and other forms of jewelry or were used as appliqués on precious metal works of art, religious furniture, and even on book covers. Therefore this bibliography contains as many such books as could be found in the conviction that by so doing, it will offer to specialists in the field of engraved gems the most complete set of references to be found anywhere, not discounting the recent invaluable works on engraved gems and their collectors by Peter and Hilde Zazoff, and the earlier treatises by Mariette, King, and Furtwängler.

Similar problems arose in connection with deciding which of the great many old and new jewelry books should be included. As true for the engraved gem books, some barely mention gemstones except to note their presence in the pieces of jewelry being described while others provide substantial essays which by themselves would make worthy articles for a magazine. Here the fifteen-pages rule was applied effectively to winnow the large number of small to large works on the subjects treated in these books, ranging from art appreciation discussions, historical treatises, and the like to those which were technical manuals for the maker of jewelry. Related to jewelry books are those that describe crown jewels and regalia, many pieces set with enormous gems of great value, treasuries of royal houses, as the Green Vaults in Dresden, the masterpieces of Fabergé, private collections, and museum collections in which the objects either are made from gem materials or adorned by them. Collections of jades and snuff bottles are also be included here as representing peripheral areas of interest.

A large category of printed matter that today multiplies at an alarming rate deals with superstitious belief, curious lore, magic and divination, crystal gazing, and other topics in the occult culture but which only rarely deal exclusively with gemstones. Among the gemological monographs on lore are the preeminent treatises by Kunz, William Jones, and Kozminsky, among others, and those which partly are devoted to gemstone lore as Elworthy's *The Evil Eye*, and Budge's *Amulets and Superstitions*. In this category also fall those works which treat the gemstones mentioned in the Bible, of which there are a surprising number. Some other peripheral areas that the reader will find are personal accounts of explorations and travels, business experiences involving gems, geological and mineralogical accounts of deposits and gemstones, guides to gem producing localities, gem cutting manuals and also those for other types of lapidary work, etc.

Languages Included

By far most entries are in English, followed by lesser numbers of works in German, French, Italian and other European languages, and exclusively confined in any case to works employing the Roman alphabet. Books published in the Cyrillic alphabet are given phonetically in accordance with the rules laid down by the American Geological Institute Translation Center. By this means the considerable (and enlarging) Russian literature on gemstones, jewels, and other topics considered in this bibliography is made available to the reader lacking command of that language. On the other hand, no attempt has been made to provide a similar rendering in languages that are printed solely in other than Roman alphabets. Several exceptions may be noted in the case of parallel translations as in the large treatise *Mani Mala* by Tagore in which Sanskrit and Hindi are accompanied by English, and Theophrastus's *Peri Lithon*, in which the Greek is accompanied by its English equivalent.

Entries and their Description

In an attempt to settle upon a standard method of presenting entries the following guides, among others, were consulted: R B McKerrow, *An Introduction to Bibliography*, 1927; H B Van Hoesen & F K Walter, *Bibliography*, 1928; J D Cowley, *Bibliographical Description*, 1949; P Gaskell, *A New Introduction to Bibliography*, 1972; and Roy Stokes' *Esdaile's Manual of Bibliography*, 1981. After considering the many types of entries described in these references it was decided that no single arrangement of data would serve for all types of printed matter, especially considering such factors as length, illustrations, and if exerpted or reprinted from a journal or published as an independent work.

The most convenient method of locating a source of information is by author; entries are alphabetically arranged accordingly. Lacking the identity of the author it then becomes necessary to use the name of an organization, office, company, etc, also arranged alphabetically. If an author served in an advisory or editorial capacity this will be indicated. Multiple author entries follow those of any single author entry if the same author is named first in the mutiple author entry. Multiple authors are cross-referenced. In any entry, a single work in all its variations is pursued chronologically and entry numbers assigned to each version until the work is finally terminated. Such versions are given a series of bars or a rule following the entry number and the year, after which may appear a note on the edition or place of publication that serves to identify it. By use of this chronological method of presenting all versions of any single work in the same sequence it becomes in effect a thumbnail sketch of its printing history.

To economize space, many liberties have been taken with grammar and prose, the omission of many connectives, and the use of abbreviations, some coined on the spot but others of standard nature and handily defined in the abbreviations list which appears later. While a great many books have been personally examined, those that have not are noted as "not seen," but these despite this qualification are deemed to actually exist. Their authenticity is based on reliable sources that quoted or described them, commonly professional journals and quality bookseller catalogs. Also in the interests of simplicity as well as economy no attempt is made in the restatement of titles to indicate type styles this being seldom necessary for the vast majority of the books described herein which rarely present the bibliographical complexities of early printed works or famous literary masterpieces that are much printed, altered, and even pirated, However, and departing from the style used in Library of Congress statements, capitals are given if they are used in actual titles, but only the initial capital is employed for words composed wholly of capitals. In some modern works, the attempt to create a distinctive "design" for titlepages may result in lower case letters being used even for author names, and punctuation omitted altogether. Such titles will be repeated faithfully in the main bibliography entries.

Because of wide variations in length and importance of numerous kinds of literature described herein, a range of treatments has been used from an abbreviated entry for

short articles, to a much more elaborate one for major works. Several examples given below are taken from the main bibliography.

An Abbreviated Entry

5405. REID, WILLIAM ALFRED Pearls in the Americas. *Commodities of Commerce*, Pan American Union, Washington, DC, Serial No 12, 1927, 23 p, ill. Not seen.

Explanation

The entry number is at the left; data are run together, commencing with author's full name, if known, the article title, the journal, its place of publication, bulletin number, year, pagination, illustrations, and the note that the article was not examined. Similar short entries may incorporate comments and references to other literature or to sources from which the information was obtained in the "not seen" entries.

The Full Entry

The most detailed entries are reserved for conventional books, but the detail varies according to the complexity of the book itself, the least descriptive matter being required for books that simply consist of text and the greatest amount of detail needed for books with illustrations, inserts, loose maps, and also if issued in multiple volumes. Also given full description are books formed from collections of articles. It is to be noted that bindings of early books, usually those pre-1800, are not described because in that period the custom prevailed to sell only the contents of a book with the matter of binding left to the discretion of the buyer. Despite many of these early volumes being bound in vellum, leather, pigskin, etc, they cannot be called "standard bindings" and to describe one is merely to describe a unique binding that cannot be applicable to all. In contrast, during the 18th century and carried on into the early 19th century, printers began to supply books in folded sheets, commonly tacked lightly with thread through the folds, and placed within stout paper wrappers, or thin cardboards, sometimes with cheap cloth spine, and with a pasted on title label of paper. It was not until the late 1700's and early 1800's that books began to be offered in standard bindings, which became more elaborate until those in the Victorian Era literally spelled out their content in the fanciful colored stampings on their covers and spines. Lamentably such decoration occurred simultaneously with wholesale adoption of papers made from acidulous wood pulp which because of cheapness and quantity were able to satisfy the enormously increased popular book market. Many of these books are now in final stages of disintegration, for example, the otherwise valuable treatises by E W Streeter, mentioned in the preface, commencing with his first edition of *Precious Stones and Gems,* 1877, which is now irreparable. Furthermore, and also to satisfy the demand for inexpensive or "cheap" editions, book manufacturers were required by their publishers to use thin boards, fragile and impermanent backing cloths, and lavish use of glue to smooth off the backs of books which not only caused them to readily break, if opened carelessly, but also insured that good adhesion to the cheap paper inside was made almost impossible. Combined with sloppy workmanship, it is easy to see that many of them will rarely be found in the original state in forthcoming decades. Despite such physical defects many of them are of important literary merit and deserving of preservation in "image" if not in reality, and for that reason commonly receive detailed description herein, It is earnestly hoped that by the descriptions adopted for such books sufficient interest in them will be aroused to encourage and expand further the present practise of producing photo-process reproductions.

The general format adopted for full entries is by (a) author(s), or organization, and with or without vital dates and brief biographical sketch, (b) entry number and year of publication, sometimes with edition note, (c) title, (d) notes pertinent to the title, (e) collation, (f) content, and (g) commentary. An example is given below.

Example of Full Entry

BOODT, ANSELM BOETIUS DE (1550-1634) also BOOT, BOËCE, BOETHIUS, etc

B ca 1550 Bruges, Belgium; physician; acquired extensive knowledge of gemstones & their lapidary treatment, both qualifications leading to appointment as personal physician and gem expert/advisor to Rudolph II (1552-1612) of Prague; wrote several works on botany in addition to his best known work described below. Biogr Univ, 5, p 147; DSB 2, p 292-3; see also various biogr notes in discussions below.

778. -----1609

Anselmi | Boetii De Boodt | Brvgensis Belgae, | Rvdolphi Secvndi, | Imperatoris Romanorvm, | Personae Medici, | Gemmarvm Et Lapidvm | Historia, | Qua non solum ortus, natura, vis & precium, sed etiam modus quo exiis olea, | salia, tincturae, essentiae, arcana & magisteria arte chymica | confici possint, ostenditur. | Opvs Principvs. Medicis, Chy- | micis, Physicis, ac liberalioribus ingeniis vtillissimum. | Cum variis figuris, $Indiq_3$ duplici & copioso. | [woodcut logo] | Hanoviae, | Typis Wechelianis apud Claudium Marnium & | heredes Ioannis Aubrii. | [rule] | M. DC. IX. [Hanover, Germany, 1609]

4°: 8, [12], 294, [16]p; †⁴, ††⁴, †², A-Mm⁴, Nn², Pp⁴; 34 text woodcuts; 8 tables(2 fold, p2/3 & 6/7); woodcut orns & inits. My copy in vellum. Largest p size examined: 22.25 x 18.5 cm(8 3/4 x 6 1/2 in). Cut. Paper browned but not brittle. Dewalque 59; DeGolyer, U Okla; Ward & Carozzi 251; GS 17-307. JSL.

[Notes are inserted here on various mispaginations.]

Cont : tp; dedic to Rudolph II; commendations; pref; catalog of gemstones & list of authors; text in 2 bks; index; logo.

Explanation

NAME - personal name supplied in full with vital dates if known, also pseudonyms, latinized names, spelling variants, etc. If anonymous, entry may be by book title, or organization responsible for publication. Co-authors are cross-referenced.

BIOGRAPHICAL SKETCH - generally names schools, qualifications, positions, important publications, and sources of biographical information or references to same.

ENTRY NUMBER & YEAR OF PUBLICATION - unless otherwise noted, the first entry under the author is for the first edition.

TITLE - reproduces the titlepage letterpress & ornamentation. In the above example, there is a contraction of the kind commonly employed in earlier latin texts(see R B McKerrow, op cit, p 319 ff) and a latinized city name (see also McKerrow, p 337 ff). As usual for supplied information such is enclosed in square brackets [], the first set for the publisher's device (logo), and the second indicating use of a plain line rule, and the third set giving the present city name and the date in arabic numerals for the convenience of the reader. Sometimes reimpressions of early books use reset titles and these are therefore also given in full opposite the year of publication. Vertical bars are used to indicate line separations; their absence may mean that the title has been copied from some other reference and not seen personally. Organizational publications commonly give their organization names and other information upon titlepages, but unlike the Library of Congress practise of indicating their omission and then giving them after the title, in this bibliography whatever appears upon the titlepage is reproduced here. While titles are given in full in most instances, there are some that contain tediously long quotations, poetic passages, lists of honors and memberships such that repeating them adds little value for the space occupied by them, and for this reason they may be partly omitted by use of square brackets placed between two vertical bars, eg, |... [5 lines of honors]...|. In editions, revisions, or other versions following the first edition, 3-dot ellipsis is frequently used to avoid useless repetition.

TITLE NOTES & ADDITIONAL DATA - these appear upon their own lines just after the title and generally refer to peculiarities in the title, eg, "title spread over two pages," or the series title if this appears elsewhere, or limited edition note, etc. None of these are present in the above example.

COLLATION - this part not only collates the contents but also describes the work. The symbols 2°, 4° ,8°, etc, refer to format of the leaves in accordance with the standard method of description; for fuller explanation see any of the references on bibliography cited above. Next is the pagination in which every page is accounted for, whether blank or not, whether numbered or not, the term "blank" being used accordingly, enclosed in square brackets to indicate absence of numbers or letterpress. Leaves, inserts, or other matter not integral to the text are indicated by plus signs, which signs may also be used to indicate portions of the book that were printed separately but assembled later to form the complete volume. The pagination of the De Boodt work above is interpreted as follows: "8 pages numbered, 12 pages unnumbered, 294 pages numbered, and 16 pages unnumbered." The printer's marks(signatures) show the gatherings of leaves that were assembled to form the complete book as daggers or letters, each gathering receiving its own symbol or letter, but the latter generally used for the text and abstract symbols used for the front matter as the daggers in this case. The interpretation is as follows: "one gathering or four leaves, another two gatherings of four leaves, another of only two leaves, and then the gatherings using conventional letters for the text from A to Z, after the exhaustion of which, the letters are repeated using Aa to Mm, the superscript numbers indicating the number of leaves per gathering. Note the omission of the signature letter "O," a convention adopted by printers centuries ago to avoid confusion. Similar omissions of signature letters will be noted in other early books described in this bibliography. For the rules governing this practice see any of the previously referenced textbooks. In modern books signatures are seldom needed and are therefore largely omitted. After the pagination appear the illustrations and decorations. In the case of the De Boodt above, there are 34 woodcuts in the text, 8 tables, of which two are folding, and woodcut ornaments and initials. Page sizes, in centimeters and inches are given rather than cover dimensions which can vary considerably even in modern books for precisely the same edition; the first dimension is vertical, the second horizontal (measured at the top of the leaves from spine to foredge). Changes from the usual rectangular shape of pages will be indicated. In the case of paperbacks the usual practise is to guillotine covers and contents in one operation hence making the dimensions the same for both. If paper covers overlap the contents, this will also be indicated. Elsewhere in the description will appear remarks on leaf edges, whether cut, deckled, or folded, and the folds left untouched ("unopened") or cut, or stained, gilt, or otherwise decorated. There are also notes on paper quality, type paper, spotting, browning or other defects,

and such other comments that are deemed to be useful. More as a matter of convenience, Library of Congress numbers (LC), International Standard Book Numbers(ISBN), U S Geological Survey Library Numbers(GS), and others including "JSL" for the author's library, now in the Gemological Institute of America library, Santa Monica, California are given here. Also in this place appear officially announced retail prices, if known, or those nowadays called "suggested" prices, but given only for new books and not prices in the antiquarian or secondhand markets.

CONTENTS - this is not merely a restatement of the table of contents but is an accounting of every page and leaf in the book, blanks included, to be coordinated with the collation, and furnishing a portrait of the book in terms of physical make-up and subject content. An important section included in this accounting states the number of references used by the book's author and on what pages they are to be found.

COMMENTARY - the commentary provided for the De Boodt example given above is not repeated here but as may be expected from the importance of this treatise it is detailed and of considerable length. As a rule, comments are provided on the matter treated by the author, its presentation, the divisions of the book, the quality of subject matter and its importance, comparisons to other works, if germane, and such others as may arise depending on the specific nature of the book. Special reference is commonly made to illustrations, their quality, pertinence, etc.

Symbols and Abbreviations

2° folio, 2 leaves(f) or 4 pages(p)
4° quarto, 4 f, or 8 p
8°octavo, 8 f or 16 p 12° twelvemo,
12 f or 24 p
16° sixteenmo, 16 f or 32 p

Note: the 12° is sometimes gathered alternately in 12 and 6 f.
| vertical bar indicating separations between lines in the title
/ slash or virgule, sometimes used in very old works as a punctuation mark; it is more commonly used herein as in "and/or."
+ plus mark is employed between parts of a book in its collation
[] supplied information
[?] unverified information
[!] literal quotation
[sic] as printed
... omitted information
...[]... matter indicated in the brackets is omitted

Abhandl	Abhandlung(en)
abstr	abstract(ed)
Abt	Abteilung(en)
acad, accad	academy, academic
ackn	acknowledgment(s)
AD	Anno Domini
adv	advancement
advert	advertisement(s)
aeg	all edges gilt
Afr	Africa
AK	Alaska
Akad	Akademie
AL	Alabama
allg	allgemeine
Amer	American
AN	followed by Roman numeral, the Post-Revolutionary year in Napoleonic France: AN I = 1792, to AN XIV = 1805, the last such year, after which the years were reverted to common usage
anal	analysis, analyses, analytical
anc	ancient, ancienne
ann	annum, annual, annal(s), annale(n), etc.
annot	annotated, annotation
anorg	anorganisch(e)
append	appendix, appendixes
approb	approbation
apptd	appointed
AR	Arkansas
arch	archive
archeol	archeology, archeologisch(e, es)
art,-s	articles, -s
assoc	associate, association
asst	assistant
Aufl	Auflage
AUS	Australia
AZ	Arizona
b	born
bart	baronet
BC	Before Christ
Bd	Band
B-Bd	Beilage-Band
bd,-s	board,-s
b&w	black & white

Belg	Belgium
bev	beveled
biblio	bibliography
biogr	biography
bk,-s	book,-s
blind	blind-stamped
BM	British Museum
BMNH	BM(Natural History)
bol,boll	boletin, boletim, bolletino
br	branch
Brit	Britain, Great Britain, British
bu, bur	bureau
bull	bulletin
c	copyright
ca	circa
CA	California
Canad	Canada, -ian
cap,-s	capital,-s
cat	catalog
cementb	cementback("perfection" binding)
cer	ceramic
cf	compare, consult further
ch,-s	chapter,-s
chem	chemical, chemistry
cie	compagnie
CIↃ	1,000 years
cienc	ciencia,-s
circ	circular
cl	class of journal; cloth
class	classic, classification
cm	centimeter
co	company, county
CO	Colorado
col	color, colored, column
coll	college, collection
comm	commission, communication
concl	conclusion
concord	concordance
cont	content,-s
contrib	contribution, contributor
corp	corporation
corr	correction, corrigendum
crit	critical
CT	Connecticut
ctr	center
cur	curator
cut	guillotined
d	deceased, died
DAB	Dictionary of American Biography
DBF	Dictionnaire Biographique Française
DBI	Dizionario Biografico Degli Italiani
dbl	double
DC	District of Columbia
DE	Delaware
dec	decor, decorated,-ion
decomp	decomposition
dedic	dedication
dept	department
Dfl	Dutch florin
dgtr	daughter
diagr	diagram,-s
diam	diameter
dict	dictionary
diff	different
dir	director
dissert	dissertation
div	division, divisão, etc
dj	dustjacket
dk	dark
dlr	dealer
DM	Deutschmark
DNB	Dictionary of National Biography
Dr	doctor
DSB	Dictionary of Scientific Biography
DSc	doctor of science
Dt	Deutsch
dtd	dated
dupl	duplicated
E	east
econ	economic, economy
edit	edition, editor
Edelsteink	Edelsteinkunde
educ	educated
eg	for example
elab	elaborate
endp	endpaper,-s
eng	engineer, -ing
Engl	England, English
engrav	engraved, -ing
enl	enlarged
entom	entomological, entomology
esp	especially
et al	and others
explan	explanation,-s
F	fellow
f, ff	folio,-s, or leaf, leaves
f	für
facs	facsimile
fasc	fascicule
fe	foredge
Festschr	Festschrift
ff	following
fig	figure
fl	flourished
FL	Florida
fly	flyleaf
fold	folded, folding
Forsch	Forschung,-en
forsch	forschende
Fortschr	Fortschritte
Fr, fr	France, French, franc
front	frontispiece
ft	foot, feet
fullp	fullpage
fwd	foreword
FY	fiscal year
G, or SG	gravity, specific gravity
GA	Georgia
G & G	Gems & Gemology
gd	guard
Gebr	Gebrüder
gemm	gemmology, gemmological, etc
geogr	geography, geographical, etc
geol	geology, geological, etc
Ger	German
Ges	Gesellschaft
GIA	Gemological Institute of America
gloss	glossary

gm	gram
govt	government
GPO	Government Printing Office
grad	graduate, -ed
grav	gravure
Gt Brit	Great Britain
H	Heft
headpc	headpiece
HI	Hawaii
hist	history, historical, etc
HM	His (or Her) Majesty
HMSO	Her Majesty's Printing Office
hon	honorable, honorary
IA	Iowa
ibid	in the same place
ID	Idaho
ident	identical
ie	that is
IL	Illinois
ill	illustration
imp	imperial
in	inch
IN	Indiana
inaug diss	inaugural dissertation
inc	incorporated
incl	included, inclusive
info	information
init	initial
inscript	inscription
inst	institute, institution, etc
int	international
introd	introduction
IR	infrared
ISBN	International Standard Book Number
Ital	Italy, Italian
izvest	izvestiya
j	journal
Jb	Jahrbuch
Jg	Jahrgang
Jr	Junior
JSL	John Sinkankas Library
k	kopeck
kaiserl	kaiserlich,-e, etc
Kl	Klasse
königl	königlich, -e, -en, etc
Kr, kr	Kroner, kronor
krist	kristallographisch
Kc	Koruna
KS	Kansas
kungl	kunglich, -e, etc.
KY	Kentucky
l	leaf
L	lire
£	pound
LA	Louisiana
lab	laboratory
lambda	unsigned gathering in text
laud	laudation
LC	Library of Congress
lect	lecture
lett	letter, lettering, etc
lit	literature, literary
litho	lithograph, -ic
ltd	limited
ltr	letter
M or Mk	German mark
MA	Massachusetts
mag	magazine
math	mathematical, mathematisch, etc
mbld	marbled
mbr	member
MD	Maryland
ME	Maine
med	medical, medicine, etc
med	mededelingen
mfr	manufacture,-r
mech	mechanical
mem	memoir, -e, memorial, etc
MI	Michigan
mimeo	mimeograph,-ed,-ic
min	mining
mineral	mineralogical, mineralogisch, etc
misc	miscellaneous, miscellany
misnum	misnumbered
Mme	madame
Mitt	Mitteilung,-en
Mk	Mark
mm	millimeter
MN	Minnesota
MO	Missouri
mono	monograph
ms	manuscript
MS	Mississippi
mt,-s	mountains,-s
MT	Montana
mtng	meeting
mus, muz	musee, museum, muzeum
N	north
nac	nacional
Nachf	Nachfolger
nat	national,-e, natural, nature
naturf	naturforschende,-n
nauk	science
NE	Nebraska, northeast
NBGen	Nouvelle Biographie Generale
NC	North Carolina
nd	no date
ND	North Dakota
NDB	Neue Deutsche Biographie
necrol	necrology
newsp	newspaper
nF	neue Folge
NH	New Hampshire
NJ	New Jersey
NM	New Mexico
no,-s	number,-s
np	no place
nr	near
Nr	Nummer
ns	new series
num	numerous
numb	number, -ed,-s
NV	Nevada
NY	New York
obit	obituary
OH	Ohio
OK	Oklahoma

omissa	omissions
OR	Oregon
org	organic, organization
orient	oriental
orn	ornament,-al,-s
orn rule	ornamental rule
p	page, pence
PA	Pennsylvania
pag	pagination
palaont	palaontologic,-al,-y, etc
paleont	paleontological, etc
para	paragraph
passim	here & there
pat	patent
perf	perforate,-d,-ion
period	periodical
pers comm	personal communication
phil	philosophic,-al,-y, etc
photo	photograph,-ic, etc
photograv	photogravure
phys	physic,-al, physiological, etc
Phys	Physik
Pi	unsigned gathering ahead of text
pl,-s	plate,-s
portr,-s	portrait,-s
post	after
PR	Puerto Rico
pract	practical
prakt	praktisch,-e
Pref	preface
prelim	preliminaries
print	printing
priv publ	privately published
proc	proceedings
prod	production, produção, etc
prof	professor, professional, etc
prov	province
Ps	peseta
ps	postscript
pseud	pseudonym
pt,-s	part,-s
ptng	printing
publ	publication, publisher
publ data	publishing data
quart	quarterly
r	recto, ruble, river
R & M	Rocks & Minerals
rd	round,-ed
rec	record,-s
recap	recapitulation
rect	rectangular
recte	correctly
recto	right
ref	reference
reprod	reproduction
rept	report
res	research
ret	retired, returned
Rev	Reverend
rev	revised, -ion, review
RI	Rhode Island
RI	report of investigation
Rm	Reichsmark
Rpf	Reichspfennig
rotograv	rotogravure
roy	royal, royale, royaux
Rthlr	Reichsthaler
Russ	Russia,-n,-isch
S	Schilling; south
sb	sbornik
SC	South Carolina
Sc	scudi
sch	school
Schr	Schrift, -en
sci scient	science, scientific
Scot	Scotland, Scottish
SD	South Dakota
sect	section,-s
secty	secretary
sep	separate
ser	serial
sess	session,-al
SG	specific gravity
sgd	signed
sig	signature
Sitzungsb	Sitzungsbericht,-e
sk	sketch
soc	society
Sp	Spain, Spanish
spec	special,-ty
Spp	Spanish peseta
Sr	senior
stat	statistic
stud	study, studied
subj	subject
subs	subscribe,-er
subtp	subtitlepage
suppl	supplement
supt	superintendent
SwFr	Swiss Franc
symp	symposium
t	tom, tome, tomo
tab	table
tailpc	tailpiece
tchr	teacher
tech	technical, technology
teg	top edge gilt
temp	temperature
terr	territory
TN	Tennessee
topo	topographical
tp	titlepage
trans	transaction
transl	translation
transp	transparent
TX	Texas
u	und
übers	übersetzt
UK	United Kingdom
univ	university
unfin	unfinished
unnumb	unnumbered
USGS	United States Geological Survey
USNM	United States National Museum
UT	Utah
v	verso, very
VA	Virginia
Verhandl	Verhandlung,-en

verm	vermilion
vign	vignette
vol	volume
vs	versus
VT	Vermont
vyp	vypusk
W	west
WA	Washington
wgt	weight
WI	Wisconsin
wiss	wissenschaftlich,-e,-en
wrap	wrapper(paperback cover)
WV	West Virginia
WY	Wyoming
Zentralbl	Zentralblatt
zool	zoology, etc
Zs	Zeitschrift

LATIN ABBREVIATIONS & CONTRACTIONS

These appear in the titles of works published in the 15th and 16th centuries; their meanings and uses are discussed in McKerrow, 319-24.

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Bibliography

1. AARNE, UUNO V

Uuno V.Aarne | Käytännön | Jalokivi | Tietoutta | 32 Kuvaa | 4 Väriliitettä | Porvoo · Helsinki | Werner Söderstrom Osakeyhtiö [1963]

8°: 111, [1]p, 32 fig, 4 col pls of gems on single glossy f tip-ins. Black cloth, gold gem outline on cover; gold lett spine. Rounded corners. Black dj, pink gems & blue lett on cover; resume, adverts. 18.4 x 12.4 cm (7 1/4 x 4 7/8 in). Cut. JSL.

Cont: 1/2tp; tp; publ data; pref; tab cont; text in 6 sects; concl, index.

Concise gemology textbook in Finnish: properties, identification procedures & instruments, descriptions of major gemstones, including organics, synthetics, also short table of minor & rarer species. The color plates are poorly reproduced from earlier published examples by Walter Wild of Idar-Oberstein.

AASCHER DIAMANT MAATSCHAPPIJ, see VAN CAMPEN, P

2. ABBOTT, A L

Gem Trails In California... Published & Distributed by Abbott & Abbott, P.O.Box 4262 Anaheim, California 92803. Copyright... 1972. $2.95.

Centerstapled: 84, [4 blank]p, 64 photos, 80 sketch maps, pale red thick paper wrap, title & photo on cover. 21.5 x 13.9 cm(8 1/2 x 5 1/2 in). Cut. JSL. Simple, straightforward directions to localities, most of which appear upon the text maps, and with photos of sites, roads, etc, and with mileages and other useful information.

ABBOTT, CHARLES CONRAD (1843-1929)

American archeol, spec native Indian culture & artifacts; MD Univ Penn 1865; ass't Peabody Mus, Cambridge, MA, to which inst his large collection passed; wrote several important archeol works.

3. -----1881

Primitive Industry: | Or | Illustrations Of The Handiwork, | In Stone, Bone And Clay, | Of The | Native Races | Of | The Northern Atlantic Seaboard Of America. | [rule] | By Charles C. Abbott, M.D., | Cor. Member Boston Society of Natural History; Fellow Royal Society of Antiquaries of the North Copenhagen, etc., etc. [sic] | [rule] | Salem, Mass.: | George A. Bates, | Cincinnati: | Robert Clarke & Co. | 1881.

8°: blank f + vi, [1], [1 blank], 560 p + [3 advert], [3 blank] p; 429 fig. + map(p 530). Dull blue pebbled cloth, blindruled frames both covers; gold title, Indian stone hammer & publ logo on spine. Bevel bds. Red-brown endp. 22.8 x 14.9 cm (9 x 5 7/8 in). Cut. JSL.

Cont: blank f; 1/2tp; tp; publ data; errata slip tip-in; pref; tab cont.; 33 ch; index; advert; 3 blank p.

By far most of the many kinds of objects described and depicted in this work are made from stone and include some made from ornamental types such as serpentine, catlinite, and flint. There is no discussion of the materials. The objects are classed according to ceremonial or utilitarian use.

4. ABBOTT, MARY

Jewels | Of | Romance | And | Renown | By | Mary Abbott | Illustrated | London | T. Werner Laurie Ltd | 24 & 26 Water Lane, E.C. 4 [1933]

8°: [8], 217, [3 blank] p; tip-in front photo of Queen Mary; 13 photos on 11 tip-in glossy f; pale blue cloth, title on cover & spine; publ monogram back cover. Plain transp tissue dj. 21.7 x 13.7 cm(8 1/2 x 5 3/8 in). Cut. Price 8/6- net. LC 34-31994. JSL. Cont: 1/2tp; other publ books; pl; tp; publ data; dedic; ackn; tab cont.; ill list; 19 ch; bibl (p.203-4, 27 entries); index; 3 blank p.

Short anecdotes of famous jewels, gems, crowns, etc, and persons connected to same. First 6 chapters arranged according to gems, namely, diamond, ruby, pearl, emerald, sapphire, opal; next a chapter on rings, then others on turquoise and coral, jewelry pieces, and various ornamental objects decorated with gems as single pieces of jewelry, jades, crowns, orders, decorations, necklaces, and boxes. Easily assimilable and highly interesting without neglecting accuracy. Rev: *Goldsmiths J*, London, Sept 1933, p 553-5. The author was sometime society editor of a daily newspaper in England.

ABBOTT, W J LEWIS (1853?-1933)

Jeweler & gemology instructor in London; pursued private interest in paleontology & archeology, in which fields publ numerous papers; earned Lyell Award, Geol Soc London(discovery & description of cache of vertebrate remains in Shode Fissures nr Ightham); biogr note by A Stores, *J Gemm* 7, 8, 1960, p 296-9.

5. -----1896(?)

Gemmographical Tables, | Giving The | Chemical Composition, Optical and | Physical Properties | Of The | [triple rule] Gems. [triple rule] | Tables of Specific Gravities, Hardness, Crystalline Forms, Cleavage, &c. | Illustrations and Descriptions of Crystalline Forms of Gems. | Names and Colors of Two Hundred Varieties. | Twin colors of Gems as seen in the Dichroscope. | (Arranged in Tables to be removed and framed for constant reference when desired). | By | W.J. Lewis Abbott, F.G.S., &c. | Lecturer on Gemmology at the Polytechnic Institute, Regent Street, W. | [double rule] | London: | Heywood & Co., Ltd., 150 Holborn, E.C. | Price 1/6 Nett. [n.d., ca. 1896] [Title enclosed in double rule frame]

Centerstapled: [20] p, the last two blank; printed one side only; 41 figs; heavy, dark grayish-blue wrap; gilt title, orn frame on cover. 28.1 x 22 cm(11 1/8 x 8 3/4 in). Cut. JSL.

One of the earliest such compilations and designed to be practical and easily referrable. This appears to be the author's only published gemological work.

ABD AL RAHMAN IBN ABU BAKR, see HABDAR-RAHMAN

ABDUL HAMID II, also 'ABD al-HAMID, Sultan of the Turks, or KABIR, 'ALI 'ABD al-MUN'IM 'ABD al HAMID (1842-1918)

6. -----1911

Catalogue | Des | Perles, Pierreries | Bijoux | Et | Objets D'Art Precieux | Le tout ayant appartenu a | S.M. le Sultan Abd-Ul-Hamid II | Dont La Vente Aura Lieu A Paris | 1° Galerie Georges Petit, 8, rue de Seze | Les Lundi 27, Mardi 28 et Mercredi 29 Novembre 1911, a 2 heures. | 2° Hotel Drouot, Salles n°s 7 et 8 | Du Lundi 4 au Lundi 11 Decembre 1911,a 2 heures. |... [title in red & black]

4°: XV, [1 blank], 58, [4 blank]p; first & last blank f enfolded by wrap; 27 photo pls(1 doublef) each with tiss gd bearing item no in red. Heavy, pale tan paper wrap, inward folding flaps, gilt title spine, gilt Arabic inscript. on cover. 33 x 25.2 cm(13 x 10 in). Uncut, untrimmed. GS 34-282 (Kunz Coll); JSL.

Cont: 2 blank f; 1/2tp; sale conditions; title; calendar of sales; pref by Jean Richepin; catalog; 2 blank f.

An auction catalog of considerable historical interest because of the items sold, namely, a part of the treasure of the Turkish Sultanate that the last sultan, Abdul Hamid II, was able to remove after his exile in 1909. While the proceeds of the auction may have financed his return to Turkey in 1912, his bid for the restoration of the Sultanate was unsuccessful, resulting in his confinement at Manisa until the year of his death. The items consisted largely of diamond-set jewelry, numerous unset diamonds and single pearls, with many of the unset diamonds being over 35 carats and a number over 50 carats. The plates depict diamond & emerald jewelry, including a magnificent necklace of emerald drops, pearls, snuff boxes, bottles, mirror, opera glasses, and other small objects of importance and value.

ABEL, F, see DAMIGERON, also ORPHEUS, 1881, 1971

ABEL-RÉMUSAT, J P, see RÉMUSAT, J P A.

7. ABEN-QUICH, MAHOMAD ...Lapidario de ... Está unida esta obra Ms. á los lapidarios de Mosca-Ha-Qaton y corresponde, por lo tanto, á los tratados mandados traducir del árabe por el Rey D. Alonso el sábio. Abraza por órden alfabético, como los lapidarios de Mosca, la descripcion y virtudes de las piedras, conforme al especial color que "ân por natura" y "segund el saber de los libros de los sábios." El autor, de gran reputacion y estima en aquellos tiempos, no se olvida de señalar la influencia de las estrellas y planetas sobre las piedras que describe, de acuerdo con los preceptos de la astrología judiciaria, á cuyas patrañas rendien ciego culto los mineralogistas del siglo XIII.

D. José Rodriguez De Castro en su *Bibliot. Española.* - Madrid, 1781, t.l, pag. 113, inserta el *Prólogo de esta Lapidario y* un Cap. intitulado: *De la piedra que tira el oro.* Not seen: from Maffei & Figueroa, 1, p. 3. See also ALFONSO X.

8. ABICH, OTTO WILHELM HERMANN (1806-1886)
De spinello. [An academic dissertation.] Berolini [Berlin], 1831, 75 p, not seen. Pogg 3, p 5-6.

9. ABILDGAARD, PETER CHRISTIAN (1740-1801)
Om drypsteensformige calcedoner, og om nogle nye ubeskrivne Norske og Grönlandske steenarter. *Skrifter af Naturhistorie--Selskabet,* Kiobenhavn, 2, 1, 1791, p 107-32. Not seen. On stalactitic chalcedony.

10. ABRAHAM, FELIX

Die Diamant-Gesellschaften | Südafrikas. | Ihre Geschichte und Entwickelung | vom | Finanziellen Standpunkt aus | bearbeitet von | Felix Abraham | Vertreter auswärtiger Bankhäuser. | [orn. rule] | Berlin. | Hugo Steinitz Verlag. | 1887.

8°: 115, [1 blank]p, fold chart. Pale yellow wrap, title on cover. 20.6 x 14 cm(8 1/8 x 5 5/8 in). Uncut. GS 34-750(Kunz Coll). Cont: tp; tab cont; pref; text; blank p; fold chart.

Preliminary remarks on the diamond deposits of South Africa, political history of the fields, how the companies were formed, later development of the companies, their financial histories, with statistics.

ABRAHAM, JACK, see HUFFER, H.

11. ABRAHAMS, L J Occurrence of diamonds in South Africa, with the method of their extraction as adopted at the De Beers Diamond Mines. *J Canadian Mining Institute,* 5, p 62; year not given in ref; not seen.

ABREU, SYLVIO FRÓES, see FRÓES ABREU, SYLVIO

12. ACAUÃ, BENEDICTO MARQUES DA SILVA Relatorio dirigido ao Governo Imperial em 15 de Abril de 1847, pelo Inspector Geral dos Terrenos Diamantinos da Provincia da Bahia. *Revista do Instituto Historico,* 1847, IX, 2.a edição, 227-260. Rio de Janeiro, 1869. Parte segunda: da descripção

dos terrenos diamantinos, 247-260. Extracto no *Dicionario Geographico das Minas do Brasil,* por Francisco Ignacio Ferreira, q.v. 209-217. Rio de Janeiro, 1885. See also FERREIRA, F I

ACHARD, FRANZ CARL (1753-1821)

Ger chemist; aide to A S Marggraf (first successful producer of beet sugar) at Acad Sci Berlin 1776; apptd dir of physics classes same acad in 1782; founded first beet sugar factory in Germany; first to prepare a platinum crucible; discovered principles governing boiling points of liquids. DSB 1, 44-5; Cobres 737; Pogg 1, 7.

13. -----1779

Bestimmung | der | Bestandtheile | einiger | Edelgesteine | von | Franz Carl Achard, | Mitglied der Königl. Preussischen Academie der Wissen= | schaften, der Berlinischen Gesellschaft naturforschender Freun= | de, der Römisch = Kaiserlichen Academie der Naturforscher, | der Churfürstl. Mainzischen und Bayerischen Acade= | mien, wie auch der naturforschenden Gesellschaften zu | Harlem und Danzig und der schlesischen oeko= | nomisch=patriotischen Societät. | [woodcut orn.] | [double rule] | Berlin, | bey Arnold Wever 1779.

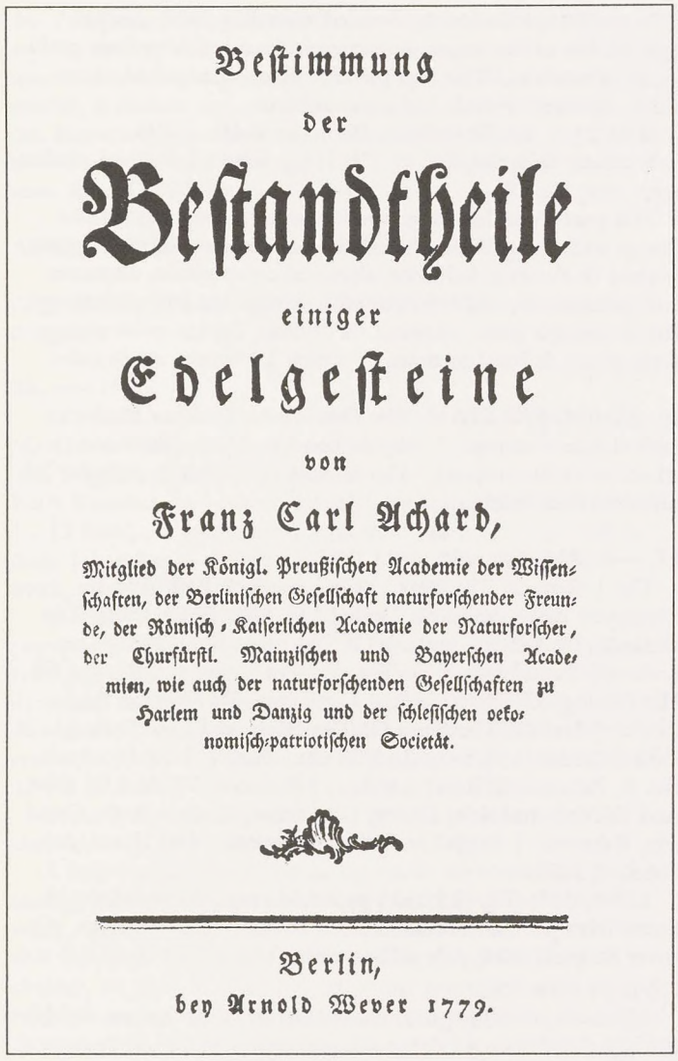
8° 128 p, A-H[8]; 2 fold engrav pls of chem apparatus. 20 x 12 cm(7 7/8 x 4 3/4 in). Cropped. GS 33-200; JSL.

Cont: tp; text; plates.

The earliest treatise devoted exclusively to the scientific chemical analysis of gemstones and the first to tackle species which had hitherto refused to yield clues as to their composition, e g, gemstones containing alumina and silica. For purposes of his work, Achard chose specimens of ruby, sapphire, emerald, zircon, pyrope, and chrysoprase and determined the presence of oxides of silicon, aluminum, calcium, magnesium and iron in almost all of the specimens tested. Unfortunately, in his zeal to avoid crucibles which could contribute impurities to melts, he chose forged iron crucibles and thereby inevitably found considerable amounts of iron oxides in analyses. Other erroneous results include considerable silica and lime in the corundums, calcium oxide in beryl, and calcium and aluminum oxides in zircon. Beryllium in beryl and zirconium in zircon were not recognized. Nickel in chrysoprase may have been identified as copper since one of the components of this quartz variety is given as "Kupferkalk." Magnesium was identified in chrysoprase but not in pyrope. His tests on corundum showed that samples resisted change even when exposed to strong fire. Achard used the term "oriental" as a prefix to his corundums and to one "emerald" specimen, the last obviously being a green corundum rather than a beryl, thus accounting in part for erroneous results upon beryls as a whole.

The methods of work are briefly described in the first part of the text; reagents used included tartar, a "mineral alkali," borax, "sedative salt," urine salt, two kinds of "saltpeter," minium, calcium oxide, Glauber's salt, crushed fluorite, and oxides of magnesium and aluminum. The main text describes the specimens, their sources, and the test results along with a table of same. The most detailed work was concentrated upon Bohemian pyrope and Silesian chrysoprase. In a broad conclusion, Achard states that alumina is predominant in the gemstones tested. Despite errors, his analyses paved the way for further analyses of hitherto refractory minerals whose compositions had been matters of speculation only. A work of great rarity.

14. -----1783, French transl Analyse de quelques Pierres Précieuses... ouvrage traduit de l'Allemand, avec des Remarques: par M.J.B. Dubois... Paris: Moutard, 1783. Engrav pl. Not seen: from Jonathan A. Hill, N Y, Cat 14, p 5. Dewalque, I.



Beſtimmung

der

Beſtandtheile

einiger

Edelgeſteine

von

Franz Carl Achard,

Mitglied der Königl. Preußiſchen Academie der Wiſſenſchaften, der Berliniſchen Geſellſchaft naturforſchender Freunde, der Römiſch-Kaiſerlichen Academie der Naturforſcher, der Churfürſtl. Mainziſchen und Bayerſchen Academien, wie auch der naturforſchenden Geſellſchaften zu Harlem und Danzig und der ſchleſiſchen oekonomiſch-patriotiſchen Societät.

Berlin,

bey Arnold Wever 1779.

13. Titlepage to Franz Carl Achard's treatise on the chemistry of gemstones, the earliest to be published

d'ACHIARDI, GIOVANNI (1872-1944)

Ital mineralogist; DSc Pisa 1893; apptd prof mineralogy U Pisa & prof in the school of engineering; zeolite mineral dachiardite named after. Pogg, 3, 8; 4, 6-7; 6, 15. Obit *Min Mag 28, 199, 1947, p.189.*

15. -----1893, 1896 ...Le Tormaline Del Granito Elbano, Pisa: Tipografia T. Nistri E C., 1893, 1896. In two parts; separates from *Atti della Società Toscana di Scienze Naturali, residente in Pisa,* Vol. XIII, 1893 & Vol.XV, 1896, as described below.

[Part 1]. 8°: 95, [1] p, litho pl no X which is actually two pls, a new Pl X being substituted for the old). Pale blue printed wrap; title on cover. 27 x 17.7 cm(10 5/8 x 7 in). Uncut. GS 8-348; JSL.

The definitive work on the famous tourmalines and associated minerals that are found in vugs in the granitic pegmatites on the Island of Elba. Descriptions are based on specimens in the Pisa Museum which largely came from quarries on Monte Capanne near San Piero in Campo and also from S Ilario and especially from the Grotta d'Oggi. This first part reviews literature from

1776 to 1886, followed by detailed crystallographic-morphologic studies of the tourmaline crystals "in relation to their multiplicity of varieties." The two plates, essentially identical, show real & idealized crystals and a stereogram.

[Part 2].. .. Le Tormaline... Parte Seconda ... 1896.

Separate: ibid, vol XV. 8°: 73, [1] p, litho pl, part col, similar wrap, size, etc. JSL.

This part treats hardness, specific gravity, coloration, color change with temperature, refractive indexes, interference figures, thermal & electrical behavior, chemical composition, alteration and paragenesis, and brief remarks on deposits and mineralogy. The lithograph plate, showing 24 crystals, depicts color-zoning along prism & basal sections, of which 10 figures are in color.

16. ADAM, WILLIAM The Gem of the Peak; or Matlock Bath and its Vicinity... Derby & London, 1828. [First edit.?; others in 1838, -40, -43, -45, -51 and 1857 (6th)]; only the 5th edit described below.

17. -----1851, 5th edit

The | Gem Of The Peak; | Or | Matlock Bath And Its Vicinity. | An Account Of Derby; | A Tour From Derby To Matlock; |... | Brief History Of The Fluor Spar, From The Earliest | Period Down To The Present Time; | A Review Of The Geology Of Derbyshire; | Catalogue Of Minerals And Rocks, | And Of The Flora Of The High And Low Peak. | ...| Fifth Edition. |... | John And Charles Mozley, | Derby: And No. 6, Paternoster Row, London. | Bemrose, W. And W. Pike, And Wilkins And Son, Derby; | Bemrose, Matlock Bath; Goodwin, Bakewell; | Bright And Turner, Buxton; And Hoon, Ashbourn. | 1851.

12°: x, 401, [7], [2 blank] p; 2 fold maps, 34 woodcuts, 8 tinted litho pls. Dark brown ribbed & blind-stamped cloth, gilt cover & spine titles, pale yellow endp. 18.6 x 11.4 cm(7 3/8 x 4 1/2 in). Uncut. JSL.

Elaborate, detailed guide containing much of interest for the geologist, mineralogist & gemologist esp. p 343 ff on Peak Cavern, nr Castleton & including "Tre-Cliff, or Blue John Mine," famous for its banded fluorite masses much used in ornamental objects. Pt V, p 360-75, gives history of the blue john, lapidary treatment of, description of the material, mosaic & Florentine inlay work in stones, and a small section on a local marble. According to T D Ford,"Blue John Fluorspar," 1955, p 36 (which see), Adam "appears to have been responsible for the theory of manganese dioxide colouring and the story of Blue John vases found at Pompeii." Adam also wrote *First Lessons in Geology*, 1857, and another work describing the natural wonders of Derbyshire, including its mines, in 1861 (neither seen).

18. ADAMOVSKA, DAGMAR The development in knowledge of moldavites (1787-1914). *Rozpravy Pedagogicke Fakult v Česk,* Budějovicích, 1,1965, p 1-28, 24 pls Not seen.

19. ADAMOVSKA, D. & ADAMOVSKY, A. The development in knowledge of moldavites (1915-1939). Ibid, 3, 1967, p 7-55. Not seen.

ADAMS, FRANK DAWSON (1859-1942)

Canad mineralogist, geologist, geological historian; studied Yale U 1878-9; also at Heidelberg U; joined Can Geol Survey 1880-89; lect McGill U 1890-93 & Logan Chair of Geol 1893; Dean Faculty Applied Sci 1922; retired 1924. Pogg 4, 8; obit L J Spencer, *Min Mag,* 28, 199, 1947, p 176-7.

20. -----1926, 1927 A visit to the gem districts of Ceylon and Burma. *Trans Canad Inst Mining & Metall,* Montreal, 29, 166, 1926, p 213-46, 11 photos("plates"), 2 figs. Reprinted: edge-stapled, 34 p, heavy tan wrap, cover title, 24 x 16.5 cm(9 3/8 x 6 1/2 in). Cut. Also issued without wrap. GS 34-751 Also reprinted in *Smithsonian Report* for 1926(1927), p 297-318, 6 plates. Also this issued as a separate: centerstapled: [1], + p 297-318, 10 photos on both sides of 3 glossy tip-in f, 2 figs. Pale gray printed wrap, cover title. 24.5 x 15.4 cm(9 5/8 x 6 in). Uncut. Entirely reset. LC 27-24961. Interesting, informative account of a personal visit to the gem-producing regions in Ceylon and Burma; brief descriptions of deposits, mining methods and stone recovery, some production figs. Photos are of scenes, native miners, crystals, and mining activities. A work that is much referenced and still retaining historical value.

21. -----1938

The Birth | And Development | of the | Geological Sciences | By | Frank Dawson Adams | PH.D., DSC., F.R.S. | Foreign Associate of the National Academy of Sciences | Vice-Principal (Emeritus), McGill University, Montreal | [publ logo] | Baltimore | The Williams & Wilkins Company | 1938

16°: v, [1 blank], 506 p, glossy front pl. tip-in + 13 glossy f tip-ins with ills on one or both sides, 79 figs, 2 unnumb text figs. Six text f are glossy paper tip-ins. Dark green cloth, blind rule frames on covers, gold lett rules & publ logo on spine. 25.5 x 17.4 cm(10 x 6 7/8 in). Cut. LC 39-2208; JSL

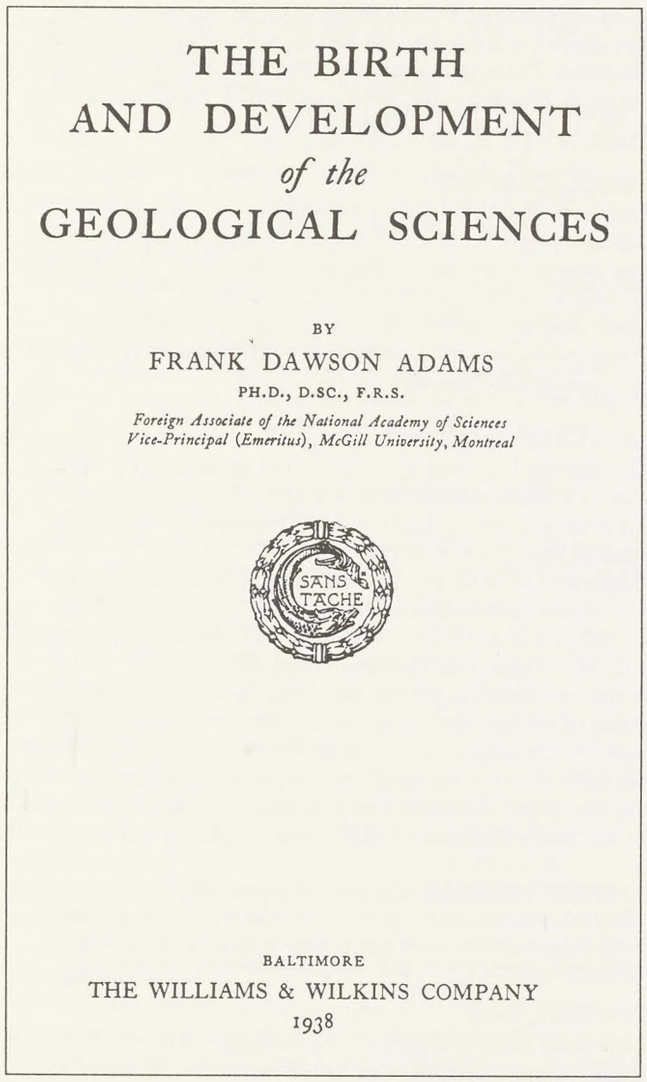
Cont: front; tp; publ data; quotes(Seneca, Aristotle); tab cont; 14 chs; index.

Justly praised, erudite exposition based on research conducted largely on antiquarian books accumulated by Adams in his impressive personal library. This treatise is a detailed, annotated bibliography of the most important writings on geology, mineralogy, paleontology and gemology that formed the basis for these disciplines as we recognize them today. The works themselves are described, the lives of their authors, the sources of their information, their relative importance, and the influence of these works on succeeding writers are carefully examined. Because of the importance of gemstones, either as objects of commerce or as substances deemed to possess real or fancied medicinal or protective powers, the older literature examined by Adams contains much on gemology and it is to his credit that this aspect is treated adequately. While references to gem stones appear throughout, the gemologist will find the most rewarding reading in the section entitled "Medieval Lapidaries," p 143-64, in which are described the works of Marbod, Stella, Leonardus and others of equal stature. Adams citations are constantly referenced. This original hardbound edition is now scarce.

22. -----1954, reprinted

The Birth | And Development | of the | Geological Sciences | Frank Dawson Adams | Dover Publications, Inc. [New York...920 Broadway,1954].

Edgestapled: v, 506 p + [4] p adverts; front portr of Hutton, 16 ills on 14 pls (2 f with ills both sides), 79 figs, 2 unnumb figs. Colored heavy wrap, cover title, other publ books back cover. 20.5 x 13.5 cm(8 x 5 3/8 in). Cut, Also in tan cloth, red spine title, te red, 20.3 x 13.7 cm(8 x 5 3/8 in). Cut. A photo reprint, somewhat reduced; popular & reprinted several times but the cloth in much smaller number.



21. One of the most important sources for the history of geology, mineralogy and gemology

23. ADAMS, F D & GRAHAM, R P D On some minerals from the ruby mining district of Mogok, Upper Burma. *Trans Roy Soc Canad,* 3 ser, 20, sect 4, 1926, p 113-36, 6 figs. Also separate: centerstapled, heavy brown wrap, cover title. 25 x 16.3 cm(9 7/8 x 6 3/8 in). Cut. LC 34-23695; JSL. Also reprinted: *McGill U Publs,* ser 5 (geology, mineralogy and metallurgy), no 13, Montreal, 1926, same pag & figs; centerstapled, pale gray wrap, cover title. 24.2 x 15.9 cm(9 1/2 x 6 1/4 in). Cut. GS 34-751.

Briefly outlines geology then gives descriptions of chrysoberyl, gem quality blue sillimanite pebbles, nepheline, sodalite, forsterite, and from the large granitic pegmatite at Sakangei [or Sakangyi], lepidolite, muscovite, topaz, cassiterite; the latter deposit noted for production of very large clear rock crystals, also large topaz crystals.

24. ADAMS, R H Descriptive catalogue of carved jades; crystal, smoky, blue aquamarine, pink, rose, carnelian and rutile quartz; amethyst, topaz, chalcedony, lapis lazuli, amber, coral, azurite, malachite, etc, etc. Minneapolis, [19-?]. 87 p plates. 23 cm. Maroon paper. Cover title; Thomas B. Walker Art Collection. Carved Jades, Quartz, etc. Minneapolis, Minnesota. Not seen: from G M Born, p 36; Yang, 1060.

ADAMS, W H D, see MANGIN, ARTHUR

ADDISON, JULIA DE WOLF (1866-) American painter & designer.

25. -----1908

Arts and Crafts in | the Middle Ages | A Description of Mediaeval Workmanship | in Several Departments of Applied | Art, Together with Some Account of | Special Artisans in the Early Renaissance | [double rule] | By Julia De Wolf Addison |... [3 lines]... | [publ logo] | [double rule] | George Bell & Sons | London --- MDCCCCVIII [Title in coppery-gilt & black, enclosed in double-rule frame] [1908]

8°: xix, [1 blank], 378, [4 blank]p,; front col pl on tan glossy paper with tiss gd bearing red lett, tip-in + 3 other col pls, same type gds, also tip-ins; 35 text figs. Green cloth, elaborately decorated cover & spine(gilt lett, scrollwork, small panels in red & white bearing various objects, and in cover center a Medieval craftsman in metal); front cover with single-rule blind frame. 19.9 x 13.8 cm(7 7/8 x 5 1/2 in). Cut. Teg. JSL.

Cont: 1/2tp; pl; tp; publ data; introd; tab cont; ill list; 11 chs; biblio (p 365-7, 96 entries); index; 2 blank f.

A little-noticed work containing much of interest on precious metals, jewelry & gemstones, ivory carvings, enamels, metalwork, textiles, sculpture, inlay & mosaic(includes some information on pietre dure work), and book illumination. The first chapter, on gold & silver objects, treats gemstones only incidentally but more on jewelry and gemstones appears in the second chapter, p 49-90. The treatment of jewelry is anecdotal, relying mainly on stories of famous jewels and treasure hoards, plus some remarks on jewelry making, rings & ring stones, gem engraving, curious lore, jewelers' guilds, etc, all in non-technical prose. Other chapters contain useful information on ivory, inlay, mosaic, and a few remarks on the celebrated skills of Florentine workers in pietre dure inlays. Handsomely-produced work.

25A.-----1908, Boston edit

Arts and Crafts in |...| [double rule] | The Page Company | Boston----Publishers [title in red & black, otherwise identical format, frames, etc].

8°: same pag, ills. Dk blue cloth, same cover decor but some panels with pale blue rather than white grounds. P size same. Fifth impress issued in 1921. Dewalque 2; Pogg I; *World Who's Who Sci.*

AEPINUS, FRANZ ULRICH THEODOSIUS(1724-1802)

Ger physicist, b Rostock, Mecklenberg; attend Rostock U 1740-; received PhD 1747; 1747-55 private tutor attached to the university; 1756 begins experiments with tourmaline; to St Petersburg in 1757 as prof physics; 1759 publ his famous essay on the theory of electricity and magnetism; various posts in education and government in Russia; invent achromatic microscope 1784; retired to Dorpat 1798; died 1802. Dewalque 2; Pogg I; *World Who's Who Sci;* see esp transl below by P J Connor, with biogr notes by R W Home, 1979.

25B. -----1756 Mémoire concernant quelques nouvelles experiences electriques remarquables. *Mém de l'Acad Roy Sci et Belles Lettres* [Berlin], T 12, 1756, p 105-21. Not seen; from Connor/-Home transl below, 1979.

25C. -----1759

Tentamen Theoriae | Electricitatis | et | Magnetismi.|...| Petropoli | Typis Academiae Scientiarvm. [St Petersburg: Academy of Sciences, [1759]].

For full collation see Connor/Home 1979, p 484ff, with other versions and periodical articles that touch on the piezoelectricity of tourmaline. Only several pages are actually devoted to the tourmaline in Connor/Home, the major findings of Aepinus having been published earlier in entry 25B.

25D. -----1762

Recueil | de | Differents Memoires | sur la | Tourmaline | publié par | Mr. Franc. Ulr. Theod. Aepinus, |...| à St.Petersbourg | de l'Imprimerie de l'Academie des Sciences | 1762.

8°: [18], [193]p; engrav pl.

Not seen; from Home/Connor, p 486, wherein also appears a translation of this work into Dutch. Earlier, R W Home had written about Aepinus's work with the tourmaline in *Isis*, 67, 236, 1976, p 21-30, stating that "Aepinus, in his *Recueil...* of 1762, reprinted his initial paper on the subject, and also provided a great deal more detail concerning his experimental procedures. In addition, he republished the papers of [Benjamin] Wilson and Duc de Noya Carafa, together with his comments on these. Despite the book's controversial character, it failed to generate much discussion."

25E -----1768 Abhandlung von einigen neuen Erfahrungen. die Electricität des Tourmalins betreffend; vom Hrn.Aepinus. Aus den Memoires de l'Acad. de Berlin. Th.l2, 1756. *Mineralogische Belustigungen, zum Behuf der Chymie, und Natur geschichte des Mineralreichs,* I.Bd, bey Joh. Friedrich Heineck und Faber, 1768, Nr.21, p 302-22. Summarizes Aepinus's experiments on Ceylon brown tourmaline to establish electrical characters and derive laws governing the phenomena whether charges produced by heat or friction. See Home/Connor, p 491 ff, for other periodical articles. A similar summary article appeared in *Gentleman's Magazine,* London, 1758, 28, p 617-9.

25F. -----1979, R W Home & P J Connor

Aepinus's | Essay On The Theory Of | Electricity | And | Magnetism | Introductory Monograph | And Notes By | R.W.Home | Translation By | P.J. Connor | Princeton University Press | Princeton, New Jersey [1979]

16° xiv, 514 p; 14 ill. Tan unfin cloth, black spine label, col dj with resumes, other publ bks. 23.3 x 15.3 cm(9 1/4 x 6 in). Cut. LC 78- 10105; ISBN 0-691-08222-7.

Cont: 1/2tp; tp; publ data; dedic; tab cont; ill list; pref; abbrev list; chronology; introd(to p 224); tp(in English); dedic tp; dedic; pref; introd; text; 2 dissertations; biblio of Aepinus, p 479-98; biblio of second- cited works, p 499-504; index(last p with publ data),

Roderick Weir Home, Professor of History and Philosophy of Science, University of Melbourne, Australia, provides an exceptionally thorough and detailed view of the life and times of Aepinus, with much on the world of science in the 18th century, while Peter James Connor, Senior Lecturer in Classical studies in the same university, provides the translation, suitably footnoted, and with reproductions of diagrams used in the original book.

AFANASEVA, E A, see ORLOV, Yu L

25G. AGAFONOV, V Zur Frage über die Absorption des Lichtes durch die Krystalle und über den Pleochroisms in dem ultravioletten Theile des Spectrums. *Verhandl Russ-Kaiserl Mineral. Ges zu St Petersburg,* 39, 1902, p 497-327. Not seen: ref *Zs Krist,* 37, 1903, p 494-5, USGS.

26. AGAR, CAROLINE

Pebbles to Pearls | [logo] | Search Press | London [1972]

Centerstapled: 31, [1]p; 18 photos & line drawings, 4 col photos (one is centerfold); other col inside covers. Heavy col wrap. 16.5 x 16.5 cm(6 1/2 x 6 1/2 in). Cut. JSL

Much simplified introduction to gemstone collecting and tumbling pebbles to polish them and with advice on how to set them in inexpensive jewelry.

27. AGELESS DIAMOND, THE

The Ageless Diamond | An exhibition sponsored by Christie's and De Beers Consolidated Mines |... [London, no publisher, no date(ca 1959); printed by McCorquodale & Co., Ltd., London.] [Title in black & pale gray]

Centerstapled oblong: [28] p, 7 photos, 5 sketches, 1 plan. Heavy white coarsely-textured paper wrap; cover title. 18.5 x 22.8 cm(7 1/4 x 9 in). Cut. There are six leaves in center printed on pale blue paper with headines in red. JSL.

A charity exhibition;preliminary remarks on the diamond plus a catalog of 40 lots, including jewels from the British Royal House, private owners, and large jewelry firms. Several Cullinan stones were shown, also rough crystals, modern & antique jewels, the Nepal diamond, Marie Antoinette jewels, the Eureka diamond, and a diamond of 128 carats owned by S Niarchos.

AGOSTINI, LEONARDO (ca 1595-post 1669)

B in prov of Siena; ca 1623 to Rome where he developed great expertise in antiquities and served under a succession of popes as an antiquary, ie, Urban VIII(1568-1644), Innocent X(ca 1570-1655), and Alexander VII(1599-1667).

28. -----1657, 1669

Le Gemme Antiche Figvrate | Di Leonardo Agostini Senese | In Roma Appresso Dall Avtore Con Licenza De Svperiori · M DCLVII [1657] [In two parts, separately described below]

Full engrav title; first 2 lines on a banner flying above an oak tree with mountains in background surmounted by a stylized star; in front of tree the She-Wolf of Rome suckling Romulus & Remus. Last line at base of engrv, signed "Gio. Bat. Galestruzzi Jnu."

Note: according to A Furtwängler, *Antiken Gemmen,* 3, p 405, and P J Mariette, *Traité des Pierres Gravées,* 1, p 451, a printed title also issued but I have not been able to find one nor confirm its existence in any dealer catalogs consulted, but see part 2 below. An engrav portr pl of Agostini, within an oval frame, and his age of 63 indicated, accompanies the title pl of part 1.

4°: [2] f + 7, [1]p; a^4 + 214 engrav pls, printed recto only + [4], 45, [3 blank]p; pi^2, A-F^4. 23.8 x 18 cm(9 3/8 x 7 1/8 in). Cut. Vinet, 1611; JSL.

Cont: tp; portr; dedic to Pope Alexander VII; pref; pls list; index of figs; approbations; pls; title(to annotations*); intent of the author; annotations; 3 blank p.

*This title reads as follows "Annotationi | Sopra | Le | Gemme | Antiche | Di | Leonardo | Agostini Senese | In

Roma, Per Giacomo Dragondelli. M.D.C.LVII. | [rule] | Con Licenza d'Superiori."

[Part 2]: same engrav title also printed title.

Le | Gemme Antiche | Figvrate | Di Leonardo Agostini.| All' Altezza Sereniss.^{Ma} Di | Cosimo | Principe | Di Toscana | Parte Seconda. | In Roma, | Appresso Michele Hercole. M.DC.LXIX. | [rule] | Con licenza de'Superiori. [1669]

4° [8]p., pi^4 + 53 engrav pls (P1 51 is an inscription) + 50, [2 blank]p , A-F^4, G^2. Woodcut tailp.

Cont: engrav tp; printed tp; dedic; pref; approbations; blank f. p; pls; title(to annotations*); index of gems; on gems in rings; correction; annotations; blank f.

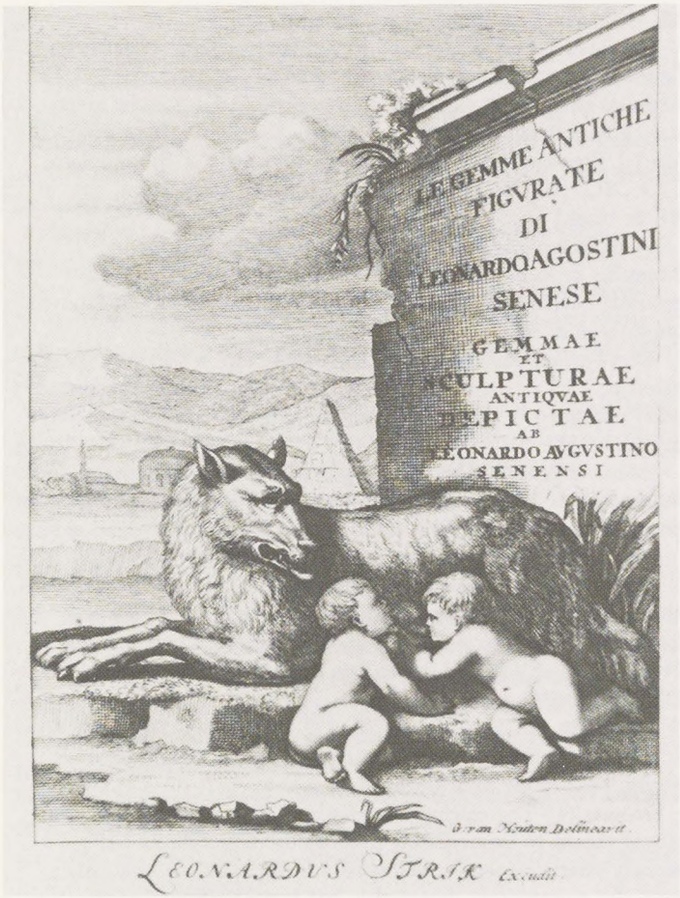
*"Annotationi | Sopra | Le | Gemme | Antiche | Di | Leonardo | Agostini | Parte Seconda. | In Roma, Per Michele Ercole. M.DC.LXIX | [rule] | Con licenza de' Superiori." [1669]

Both works are essentially books of engraved gem illustrations mostly taken from the antique, according to Furtwängler, *Antiken Gemmen,* 3, p 405, and printed from plates prepared by Galestruzzi with annotations by Giovanni Bellori(1615-1696), the noted Italian antiquary who was once the librarian and keeper of the royal cabinet for Queen Christina of Sweden. F (ibid) also notes that the text is, however, little more than a factual explanation of the objects depicted, but the engravings are remarkable for "relatively little detail" but done in a "clever, fresh buoyant manner." C W King, *Antique Gems and Rings,* 1, p 462, states that "though executed very sketchily, in the manner of pen-and-ink drawings, and on too magnified a scale, they give the true character of the originals with far greater success than any of the other works brought out in Italy during the succeeding century," and "from Agostini's mode of expressing himself, it may be inferred that many of the gems were his own." Much attention was paid both to the engravings and the possible provenances of the gems by P J Mariette, *Traité des P Gravées,* 1, p 273-7, who also provides critiques of the several editions and a list of same(p 451-2). G A Aldini, *Inst Glittografiche,* p 196-226, gives a brief life of Agostini, remarks on Galestruzzi, and the publishing history, including the fact that Domenico Rossi, *Gemme Antiche* Fig, 4 vols, incorporated these plates in his collective work. Aldini also notes that the present work was the first on engraved gems to be written in a vulgar language. In respect to the plates, each shows a gem, greatly enlarged, the name of the subject or object above and that of the gem material below(but not always), but without the name of the gem owner or cabinet, nor any indication of size. Accordingly, Mariette devoted much space as to the owners or the cabinets that the gems came from. R Goodland, *Biblio Sex Rites,* p 4, notes several phallic gems. See also P & H, Zazoff, *Gemmensammler,* 1983, p 37, 38.

29. -----1686, second impression

Le | Gemme Antiche | Figvrate | Di | Leonardo Agostini | All Santita | Di | Alessandro VII. | Parte Prima [-Seconda]. | Seconda Impressione. | Di nuouo in miglior forma ordinata ad arrichita. | In Roma. | Appresso Gio. Battista Brvsotti. | [dashed rule] | M.DC. LXXXVI. | Con Licenza De' Svperiori. [1686]

This may be a corrected title inasmuch as Goodland, Ibid, p 4, cites a copy with the word "Seconda" misspelled as "Secodna." The first part of my copy is also supplied with the engrav title of



32. Engraved titlepage to Agostini's treatise on engraved gems in the Gronow edition of 1694

the first issue and still bearing the date 1657.

4° engrav tp + 52 p , A-F^4, G^2 + engrav portr of Agostini + 115 engrav pls. LC 12-11890; JSL.

Cont. engrav tp; tp,; dedic; pref; laudation of Agostini; antique gems in rings; annotations; index & corrections; pls.

Part 2; my copy sans engrav tp; printed tp reads:

Le | Gemme Antiche | Figvrate | Di | Leonardo Agostini | All'Altezza Serenissima Di | Cosimo | Principe | Di Toscana | Hoggi Serenissimo Gran Duca. | Parte Seconda. | Seconda Impressione | Di nuouo in miglior forma ordinata, ed arrichita. | In Roma, | Appresso Gio. Battista Brvsotti. | [rule] | M. DC. LXXXVI. | Con Licenza De' svperiori. [1686]

4°: [4], 75, [1 blank]p †^{4} ,A-I^4 K^2 + 150 pls (actually 151 pls, there being two numbered "17", one in order but the other at the end, with explanation p 72).

30. -----1680, Latin transl. Gemmae et sculpturae antiquae depictae a Leonarda Augustino... Romae, excudebat J.Jacobus de Ribeis [1657]-1680. 2v in 1, 269 pls, includes portraits. 21 cm. Added engrav tp. Not seen: GS 34-660(Kunz Coll).

31. -----1685, Amsterdam edit of above. Gemmae et Sculpturae antiquae depictae a Leonardo Augustino, addita earum enarratione, (ex Italico) in Latinum versa a Jacobo Gronovio. Amstelodami 1685. 2 vol, 4°. Not seen: Mariette, ibid, p 452.

32. -----1694, 2nd edit, Gronow commentary

Gemmae | Et | Sculpturae | Antiquae | Depictae | Ab | Leonard Avgvstino | Senensi | Addita earum enarratione, | In Latinum versa | Ab | Jacobo Gronovio | Cujus accedit praefatio. | Pars Prima[-Secvnda]. | Editio Secunda. | [woodcut orn.] | Franequerae, | Apud Leonardum Strik. | Bibliopolam, CIↃ ↃIC [sic] XCIV. [Franeker, Holland; recte 1694; title in red & black]

With facing engrav tp: She-Wolf of Rome suckled by Romulus & Remus (foreground), crumbled plinth(rt background) bearing titles in Ital & Lat; plate signed G van Houten; publ name at base.

4°: [4]p, engrav tp + print tp (conjugate) + [36]p + 83, [1 blank]p; $*2^2$, $†^2$, $*a\text{-}c^4$, $**^2$, A-K⁴, L^2 + [8]p (portr Agostini, 3 relief engravs) + 214 engrav pls. 23.4 x 18.4 cm(9 1/4 x 7 1/4 in). Cut. JSL.

Cont: engrav tp 7 tp; dedic; pref; Gronow's comment; 2 indexes(recte, 3); annotations tp; annotations; blank p; Agostini portr; 3 bas relief engravs; pls.

Part 2: no engrav tp; letterpress tp reads:

Gemmae | Antiqvae | Depictae | Per | Leonardvm Avgvstinem| Ad | Serenissimam Celsitvdinem | Cosmi | Principis Etruriae. | Pars Secvnda. | Editio Secunda. | [woodcut orn.] | Franequerae, | Apud Leonardum Strik, | Bibliopolam, CIↃ IↃ CXCIV. [1694, corrected date]

4°: [10]p + 71, [1]p . pi^1, ¶⁴, a-i⁴ + 51 pls + [2]p; $*d^1$.

Cont: annotations tp(1); tp; dedic; pref; dissert; annot errata; pls.; index to sculptures(2).

Notes: (1) The catchword on verso of this leaf indicates that it was meant to immediately precede the annotations but p 13 already bears the same catchword and is paged continuously with the annotations; hence this leaf is superfluous but was inserted ahead of the title to obtain some use from it. In the reprint of this edit, see below, this leaf was employed but only by recasting the text to accomodate it in proper order. (2) This leaf appears to belong with the indexes of the first part and is so placed in the reprint below.

This edition, brought out under the aegis of the celebrated Dutch philologist, Jakob Gronow or Gronov, or in Latin, Gronovius, contains extended remarks on the Bellori annotations, many severely critical, according to Furtwängler, ibid, 3, p 405, with re-engraved plates, including that of Agostini which faces in the opposite direction, as do all the others. However, the engravings are more carefully done and eliminate much of the sketchiness of the originals.

The issue above was printed on thick, rather soft paper, but the following reprint is on thinner, whiter, and firmer paper of considerably smaller trim size. Collations: Pt 1: [4] + [36] + [8]p (portr, bas reliefs) + [2] annot tp + 83, [1]p; $*2^2$ $**^1$ $†^2$ $*a\text{-}c^4$, $*d^1$, lambda¹, A-K⁴ L^2 + pls Pt 2: [10]p + 71, [1]p; ¶⁴, lambda¹, a-i⁴ + pls. 19.5 x 15.3 cm(7 1/2 x 6 in). Cut.

33. -----1699, 3rd edit, Gronow, in 2 parts

Gemmae | Et | Sculpturae |Antiquae | Depictae | Ab | Leonard | Augustino | Senensi | Addita earum enarratione, in Latinum versa | Ab | Jacobo Gronovio | Cujus accedit praefatio. | Pars Prima[-Secunda]. | Editio Tertia. | [woodcut publ.dev.*] | Franequerae, | Apud Leonardum Strik, | MDCXCIX. [1699; title in red & black]

*An angel watering a tree, enclosed in floral wreath, Latin motto and initials "L" and "S" at base.

4°: [4] p (engrav tp & lett tp) + [36] + 83, [1 blank]p; pi^2, $†^2$, $*a\text{-}c^4$, $*d^4$, A-K⁴, L^2 + [8]p (portr of A, 3 bas-reliefs) + 214 engrav pls. JSL.

Cont: engrav tp; tp; dedic by Strik; dedic by Agostini; pref by Gronow; 2 indexes; annot tp; annotations; blank p; Agostini portr & bas relief engrav; engrav pls.

Pt 2:

Gemmae | Antiquae | Depictae | Per | Leonardum Augustinum | Ad | Serenissimam Celsitudinem | Cosmi | Principis Etruriae. | Pars Secunda. | Editio Tertia. | [same woodcut] | Franequerae, | Apud Leonardum Strik, | MDCXCIX. [1699; title all black]

Cont: tp; dedic; pref; index; annot tp (1); dissert; annot; errata; pls. Note: (1) This leaf is also printed with a catchword as in the previous edition, which see notes for.

Essentially a reprint; both titles reset; additional dedication added; dedications of Agostini reset in both parts; preface in second part reset.

34. -----1702; new Ital edit, Rome; 2 vols

Le | Gemme Antiche | Figvrate | Di Leonardo Agostini | Parte Prima[-Seconda] | Dedicate | All'Illvstrissimo, Et Eccellentissimo Signore | Signor | D.Carmine | Nicolo' Caracciolo | Prencipe [sic] di Santo Buono, Duca di Castel di Sangro, | Marchese di Bucchianico, Conte di Schiaui, S. Vito, | & Capracotta, Sig. della Baronia di Monteferrante, | e della Cittá d'Agnone, di Ripa Teatina, Frisa | Grandinaria, Rocca del Raso, e Guardia Grele; | decorato degli Onori di Grande di | Spagna, ed ambasciatore | estra ordinario all Santità di | Clemente XI. | In Roma | [dashed rule] | Nella Stamparia del Monaldi MDCCII. Con lic. de' Sup. [1702]

Vol 1: 4°: 52 p; [A]⁴, B-F⁴, G^2 + 115 engrav pls. 25.8 x 21 cm. (10 1/8 x 7 7/8 in). Cut. JSL.

Cont: tp; dedic (signed by Monaldi); reimprimaturs; gems in rings; annot; index; errata; plates. Vol 2 not seen.

Printed from original pls but the latter renumbered in many pls with an attempt to place all similar subjects together. The plate grounds are now much cleaner and impressions inked with greater care thus eliminating much of the smudginess characteristic of the original edit. Single-rule frames added to plates. This edit mentioned by G A Aldini, *Inst Glittograf.* p 198; not mentioned by Mariette, Furtwängler, King; my impression is that this edit, despite its later date, is rarer than the others.

d'AGOSTINO, J, see STRONG, H T

AGRICOLA, GEORGIUS (BAUER, GEORG) (1494-1555)

Celebrated Ger mineralogist, mining engineer, metallurgist; b Georg Pawer or Bauer, Glachau, Saxony; grad U Leipzig 1517 or 1518 with degree in classics; latinized name to Agricola; taught Latin, Greek at Zwickau; stud medicine U Leipzig and medicine & philosophy at Bologna and Padua; took M D at Ferrara U 1526; apptd public physician Joachimsthal, later at Chemnitz, then apptd Burgomeister Chemmitz; first work on the arts of mining & metallurgy, *Bermannus,* appeared in 1530, followed by others, including his most important and magnificent treatise *De Re Metallica,* publ posthumously 1556.

35. -----1546

De natura fossilium. Basel, 1546. First edit. Not seen.

According to Bandy & Bandy(see below) this work "was first published by the Froben press at Basel in 1546 and later editions appeared in 1558(folio), 1612(12mo), and 1657(folio). The second edition, also published by the Froben press, appeared three years after his death. The work was translated into Italian

in 1612 and into German in 1809-1810." See also Ulrich Horst, "Bestandsaufnahme der Werke des Dr. Georgius Agricola mit bibliographischen Forschungsergebnissen," v.X of his *Ausgewälte Werke,* Berlin, 1971. None of these edits were seen.

36. -----1955, Bandy transl

The Geological Society of America | Special Paper 63 | [rule] | De Natura Fossilium | (Textbook of Mineralogy) | By | Georgius Agricola | Translated from the First Latin Edition of 1546 | by | Mark Chance Bandy | and | Jean A.Bandy | for the | Mineralogical Society of America | [GSA logo] | [rule] | November 1955 [New York]

16°: xiii, [1], 240, [2 blank]p; front portr Agricola on glossy tip-in. Olive-green cloth, gilt spine. 24.4 x 15.9 cm(9 5/8 x 6 1/4 in), Cut, $3.00, JSL. LC 56-543,

Cont: pl; tp; publ data; ackn; quot; transl pref; tab cont; text; Agricola's list of authorities; Latin mineral index; Greek mineral index; general index; blank f.

A most valuable, scholarly work of enduring usefulness to anyone delving into the historical aspects of mineralogy, geology, and mining. From the gemological standpoint, Agricola's statements concerning gemstones, represent the first reliable descriptions mostly free of the superstitions attached to gemstones in previous works on the subject. The preliminaries contain a short biography of A, with mentions of his previous works and editions of this work. The main body is a straightforward translation of the ten books of the original augmented by numerous footnotes. References to gemstones appear in many places but Book VI, p 112-47, is solely devoted to them, while Book IV, dealing broadly with mineral substances, contains considerable material on jet, a little on obsidian, which A confuses in part with true mineral pitch, and much on amber, this last being particularly valuable. References to gemstones may also be found in Book V.

In the principal chapter, or Book VI, on gemstones, a large number of species and varieties are treated, a number of which, however, are no more than repetitions of gemstone names whose identities had been lost by the time Agricola began writing and hence remain unidentified to this day. Marbles and other ornamental stones are described in Book VII. The impression gained from this generally useful compilation of material on gemstones is that Agricola's knowledge of ore minerals was considerably superior to that on gemstones. Possibly for the sake of completeness, he sought out as much information as he could find and rather uncritically incorporated it in the gemological portions of his book. However, the ring of authority can be heard in his discussions of native European quartz materials and Baltic amber, but his discussions of such exotics as beryl and diamond reveal a lack of personal knowledge and uncritical repetition of information that stems from Pliny and his successors.

All of Agricola's major works are to be found in Dr Helmut Wilsdorf's *Georgius Agricola - Ausgewählte Werke.* Gedenksausgabe des Staatlichen Museums für Mineralogie und Geologie zu Dresden, VEB Deutscher Verlag Der Wissenschaften, Berlin, 10 volumes, 1956-71, with Supplement volume 1, 1971. Consult especially Vol 10, "Agricola-Bibliographie 1520-1963."

37. AHLFELD, FEDERICO or FRIEDRICH(1892-) & ANGELLELI, VICTORIO

Las Especies Minerales | De La | Republica Argentina | Por | Federico Ahlfeld | Del Instituto de Geología y Minería | Y | Victorio Angelelli | Geólogo de la Dirección General de Fabricaciones Militares | [star] | Universidad Nacional De Tucuman | Instituto De Geologia Y Mineria | Jujuy 1948

"Universidad Nacional de Tucumán Publicación N°.458... Ejemplar N°.0321..." [total press run not stated]

8°: [2], 304, [2 blank], [1]p, 14 photos on 7 glossy tip-ins; 27 figs(most are crystal drawings). Pale tan heavy paper wrap, cover title. 26.5 x 17.8 cm(10 1/2 x 7 in). Cut. Corrigenda slip. JSL.

Systematic descriptions of Argentine minerals including these gemstones: rock crystal, amethyst, chalcedony varieties, silicified wood, opalized wood, precious opal, rhodochrosite(considerable information on this massive, banded material), calcite onyx, marble, amber. Beryl and garnet are mentioned. Large bibliography, p 289-97, 186 entries.

38. AHLFELD, FRIEDRICH & MOSEBACH, RUDOLF

Über Alkaligesteine in der bolivianischen Ostkordillere. Neues *Jb f Mineral*, etc., Abhandl, B-Bd 69, Abt A(3), 1935, p 388-414, pls 17-19. Geol-mineralogical description of sodalite deposits on E slope Cerro Sapo, Bolivia, and clustered around the Cerro Sapo nepheline-syenite stock. Ornaments of this beautiful blue stone have been found in relics of Andean Indians from northern Argentina to Ecuador. Tunnels and other workings are pre-Inca; the deposits were also worked by Jesuits in the 17-18th centuries.

39. AHRENS, J R & MALLOY, R L Gems and jewellery in Hong Kong: a buyer's guide. Hong Kong: South China Morning Post, 1984. 158 p $45.00. Not seen: *J Gemm*, 19, 3, 1984, p 278.

AITKENS, IRENE

Author of following pamphlets issued by U S Bureau of Mines, as a series of Information Circulars 1931-32, each consisting of reproduced typescript 10 1/2 x 8in(26.75 x 20.25 cm) sheets, with standard cover sheet. Standard information: gemstone properties, identification methods, uses, substitutes or imitations, history, lore, mining, cutting, production figs, imports, selected refs. Free upon application.

Format: top, IC No & date; top center "Department Of Commerce," below,"United States Bureau Of Mines," title in center below, department seal, and "By Irene Aitkens."

40. -----I.C. 6459, Jul 1931. Emeralds. [2], 18 p; biblio 25 entries.

41. ----- - 6471, Aug 1931. Rubies and Sapphires. [2], 11p ; biblio 28.

42. ----- - 6491, Sept 1931. Turquoise. [2], 17p, biblio 35.

43. ----- - 6493, Sept 1931. Opals. [2], 9 p, biblio 23.

44. ----- - 6502, Sept 1931. Topaz. [2], 11p, biblio 23.

45. ----- - 6518, Oct 1931. Garnets(Gem Stones). [2], 11p, biblio 21.

46. ----- - 6533, Nov 1931. Feldspar Gems(Amazon Stone, Moonstone, Sunstone, Etc). [2], 10p, biblio 10.

47. ----- - 6539, Nov 1931. Tourmaline. [2], 8p, biblio 15.

48. ----- - 6561, Mar 1932. Quartz Gem Stones. [2], 15 p, biblio 24; lists species & gem varieties, p 10-15, ca 120 terms.

AKADEMIYA NAUK, see USSR AKADEMIYA NAUK, etc.

49. al-AKFĀNĪ, recte SHAMS AL-DIN AL-AKFANI(d ca 1347-8) "Treatise on precious stones" edited by P L Cheikho in *Al-Machriq*, vol 11, 1908, p 751-65; not seen. For a transl, in German, of the mineralogical treatise which includes gemstones, see WIEDEMANN, E.

50. AKIN, HIKMET Das Meerschaumvorkommen Sepetçi (Eskisehir/Türkei). *Der Aufschluss*, 28, 1977, p 45-56, 7 ill, 16 ref. Excellent recent account of the famed and still productive deposits of meerschaum in Asia Minor.

ALAJOS BERTALAN, see BERTALAN, A.

A LA VIEILLE RUSSIE

A La Vieille Russie ("Old Russia") is a jewelry and art objects shop in New York City specializing in works by Carl Faberge and his contemporaries.

51. ----- 1949

An Exhibition Of His Works | Peter Carl Faberge | Goldsmith and Jeweller to the Russian Imperial Court | and to the principal Crowned Heads of Europe | November - December 1949 [New York City: A La Vieille Russie, 1949]

Centerstapled: [16], 34, [6]p, 21 photos. Tan, heavy paper wrap, title & jeweled monogram of Nicholas II on cover in red-brown ink; company advert back cover. 22.8 x 15.2 cm(9 x 6 in). Cut. JSL.

Guide to the first major exhibition of Fabergé works in America, held upon the A La Vieille premises in New York City, and with an introduction by British art critic Sacheverell Sitwell. Walters Art Gallery, Baltimore, and numerous private collectors sent 291 items, eg, animal carvings in gem materials, containers & boxes, small utilitarian objects, clocks, Easter eggs, flower carvings, picture frames, etc. Sitwell's introduction provides biographical notes on Fabergé and comments upon his work and several of the outstanding items on view. All catalog entries are very brief and no more than identifications; the photos are muted in tone and lack sharpness due to the surface quality of the paper.

52. -----1961

The Art of | Peter Carl Faberge | [orn] | A Loan Exhibition | for | the benefit of | The Scholarship Fund of | The Manhattan School Of Music | [orn] | October 25 - November 7 | 1961 | A La Vieille Russie, Inc. | 781 Fifth Avenue, New York

Edgestapled: 94, [3], [1 blank]p; col front + 5 other col photos; 111 b&w photos. Very pale gray, flecked wrap, title in dark red on cover & spine. 28 x 21.6 cm(11 x 8 1/2 in). Cut. Glossy paper. JSL.

Cont: blank p; col pl; p; data on Manhattan Sch; officers of same; col pl; fwd; ackn (lenders); notes on Fabergé hallmarks; publ data; blank p.

A handsome catalog; only 2,000 copies issued. Briefly describes 295 items, some of considerable importance, eg, carved animals, flowers, boxes, jewelry, small functional items, figurines, and 9 Easter eggs. Excellent photos.

53. -----1968

The Art of the | Goldsmith & Jeweler | A Loan Exhibition for | the Benefit of | The Young Women's Christian Association | Of The City Of New York | November 6 - November 23 | 1968 | A La Vieille Russie | 781 Fifth Avenue, New York

Edgestapled: [4], 139, [1 blank]p; 22 col photos, 298 b&w photos printed part in text, part both sides of [12] f, including [1]f bearing lett & not incl in pag. Heavy white, plastic-coated wrap, col photo on cover with brown lett; brown lett spine. 27.3 x 21.3 cm(10 3/4 x 8 1/2 in). Cut. Glossy paper. Price $5.00. JSL.

Cont: blank p; publ data; dedic; col pl; tp; YMCA personnel & publ data; apprec ltr; fwd; lenders list & ackn; intro; catalog; blank p.

Splendid catalog, handsomely illustrated; brief descriptions of 370 items, eg, jewelry of many types; art objects, carvings, etc. Period pieces from Renaissance to Modern, incl Art Nouveau and Fabergé. Brief introd traces development of styles and methods of fabrication throughout span covered.

54. -----1983

Faberge | A Loan Exhibition for | the benefit of | The Cooper-Hewitt Museum | The Smithsonian Institution's | National Museum of Design | April 22 - May 21 | 1983 | A La Vieille Russie | 781 Fifth Avenue, New York

8°: 153, [1], [2 blank]p; 199 col photos, 35 b&w photos, 1 fig. Heavy dark blue wrap, 2 col photos front cover + gold title; 1 photo back cover; gold spine title. Glossy paper. 28 x 23.3 cm(11 x 9 1/8 in). Cut. LC 83-70215; ISBN 0-96 11014-0-7. JSL.

Cont: blank p; cover captions; dedic; front col photo; tp; committee & publ data; pref; chronology; tab cont; fwd; ackn; lenders; "Hunting for Easter Eggs" by C Forbes; "The Art of Carl Faberge - An Introduction," unsigned; Peter Carl Faberge - An Astonishing Revolution in the History of Fashion," by P[eter] L S[chaffer]; "The Exhibition" (Catalog); notes on hallmarks; biblio (p 152-3, 28 entries); photo credits; blank f.

Splendid assemblage of 561 objects including the larger eggs and carvings but also numerous small and exquisitely made items as miniature eggs, animal carvings, and jewels. Outstanding col photos. Authoritative and helpful preliminary articles by well--known experts.

al-AKFANI, see AKFĀNĪ, etc ; also WIEDEMANN, E

ALARDUS AEMSTELREDAMUS, see MARBOD 1539

55. ALBERTI, M

Dissertatio de Succino. Halae, 1750, 37 p. Not seen. Agassiz, I, 108.

ALBERTUS MAGNUS, - THE GREAT, ALBERT LE GRAND, -GROTUS, ALBERT DE BOLLSTADT, -OF CLOQUE, etc (1193?-1280)

Albert b Lauingen ca 1193; Dominican friar; chosen Provincial 1254; Bishop of Ratisbon 1260 but resigned ca, 1263; enthusiastically pursued wide range of knowledge, leaving numerous works in logic, theology, physics, metaphysics, etc. DSB 1, 99-102.

One of his major works, perhaps the one most reprinted, copied, modified, etc, was his "Book of Secrets," or a compendium of numerous bits of information and lore on a variety of subjects in natural history and the arts. One of its parts, the *Mineralibus*, is of special interest here inasmuch as it treats stones, minerals, ores, gemstones, etc, with brief remarks on appearances and properties, plus spiritual and medicinal virtues that such substances were then deemed to possess. It was a fundamental treatise, widely-distributed and widely-read, and provided a source of information for generations of writers after its first appearance in Padua in 1476.

It is impossible to do more than indicate a few editions of this treatise, for, as Ferguson, *Bibliotheca Chemica*, 1, p 15, points out, "no tracts used to be more popular than those of Albertus Magnus and Michael Scotus. They began to be printed in the fifteenth century, and passed through a very great number of editions both separately and conjoined." While Ferguson's remarks were aimed primarily at Albert's *De Secretis Mulierum* (see below), they apply equally well to the work on minerals. Notices of many editions of Albertus Magnus were published by Ferguson in the *Transactions of the Archaeological Society of Glasgow* between 1882 and 1898 and are now readily available in reprint entitled *Bibliographical Notes on Histories of Inventions and Books of Secrets*, 2 vol in one, London, Holland Press, 1981. Ferguson further states that "whether or not these tracts are to be ascribed to Henry of Saxony, a scholar of Albertus', as is done by some, it is almost certain that they are not by Albertus." This view is shared by Lynn Thorndike, *A History of-Magic*, 2, 1923, who devotes an entire chapter to treatises ascribed to Albertus but usually considered spurious. This chapter also contains a life of Albertus.

Modern commentaries on Albertus, especially in respect to his mineralogical/gemological knowledge as displayed in *De mineralibus*, begin with Hugo Strunz's article(which see) that records his examination and evaluation of contemporary mineralogical knowledge as given in the first collected edition of Albert's works of Lyon, 1651. A far more elaborate and useful treatment by Dorothy Wyckoff appeared in 1967 (which see); its translation is based upon vol 5 of Auguste Borgnet's edition of the collected works, Paris, 38 vols, 1890-1899. Wyckoff also provides a valuable list of references. Another valuable examination is that of M R Best & F H Brightman, 1973, which see, that treats the "Book of Secrets" as a whole, including the treatise on minerals. A recent collected edition is being published in Cologne, 1951-, under the editorship of Bernard Geyer and is sponsored by the Albertus Magnus Institute in that city. See also the discussion of Albert's work by H Tertsch, *Das Geheimnis der Kristallwelt*, 1947, p 80-6.

The *De Mineralibus* first appeared in printed form in Padua, 1476, and before 1500, no less than 6 editions were printed in Italy, followed by others in Germany, France, England, etc, most editions in the conjoined state. Only several examples are described below.

56. -----1591

Alberti | Magni | De Secretis | Mvliervm Libel- | Lvs Cvm Scho- | Liis. | Eivsdem De Virtvtibvs | Herbarum, Lapidum, & Animalium | quorundam libel- | lus. | Item De Mirabilvs | mundi, ac de quibusdam affectibus | caussatis à quibusdam anima- | libus, &c. | Lvgdvni | 1591. [Leyden]

16°: [176]f , the last 5 blank; A-Y^{8}. 9.8 x 7 cm(s 7/8 x 2 3/4. Cropped.

Cont: tp; prooemium; secrets of women B2 v to N8 v; "Liber Aggregationis..." 0 to R7 v;..."De mirabilus mundi... incipit" R8 r to Y2 v; "Finis"; 11 blank p.

The first part treats the physiology and procreative "secrets" of women and is followed by the "Liber Aggregationis"or a combined work in which are described the virtues, real or imagined, of plants, stones, and animals. The stones part includes numerous gemstones, each briefly described and magical or medicinal properties explained. Covering leaves P2 v to Q5 v, it is entitled "Secundus Liber Alberti Magni, Et Est De Virtutibus lapidum quorundam," and treats the following stones, sometimes using alternative spellings: magnes, opthalmius, onyx, feripendamus, sylonites, topasion, medor, mephytis, abaston, adamas, agates, alectorius, esmundus, chrysolitus, calcedonius, amethistus, berillus, celonytes, corallus, crystallum, chrysolitus (a repetition, rephrased?), elitropia, epistretes, chelidonius, gagates, bena, histmos, tabrices, chrysolitus [!], garardides, nichomat, wuirim, radianus, iupertus, onices, lapis lazuli, smaragdus, iris, gallasia, galerites, draconites, echites, terpistrates, hiacynthus, orithes, sapphyrus, and saunas.

Many of the above are readily recognizable, some are likely fossils which commonly received special names and were included under precious stones in previous mineralogical compilations, while others are now completely unrecognizable and their identities matters of speculation.

57. -----1643; an edit with a treatise by Michael Scot

Albertvs | Magnvs | de | Secretis | Mvliervm. | Item | De Virtutibus Herba= | rum Lapidum et | Animalium. | Amstelodami, | Apud Iodocum Iansso= | nium. A°. 1643 [Amsterdam: Jansson press.]

Entire title engrav;lett enclosed in panel, upper ctr, surround of cupids on decorated plinths; below an allegorical scene.

12°: 366,[9], [1 blank]p ; A-P^{12}, Q^{8}. 12.6 x 7.1 cm(5 x 2 3/4 in). Cropped. JSL.

Cont: tp; prooemium; secrets of women p 14-133; Liber aggregat p 133-70; short treatise on astrology, p 170-5; de mirabilus mundi, p 175-223; Scot's "Secrets of Nature," p 224-36; index; blank p.

The treatise on stones, with own title, appears on p 146-62.

58. -----1669, another Amsterdam edit. Albertus Magnus de Secretis Mulierum Item De Virtutibus Herbarum Lapidum et

Animalium. Amstelodami, Apud Henricum et Theod Boom. A° 1669. 24° 329 p, Index [6, 1 blank]. Engrav tp; Proeemium; De Secretis p 10-118; Liber Aggregationis, p 118-158; De Mirabilus Mundi p 158-203; M Scot's De Secretis Naturae, p 204-329, Two issues of this date. Not seen; from J Ferguson, *Bibliotheca Chemica*, 1, p 15.

59. ALBINIUS, PETRUS CONSTANTIUS. Magia astrologica hoc est P.Constantii Albinii Villanovensis Clavis sympathiae septem metallorum et septem selectorum lapidum ad planetas pro maiori illius elucidatione. Opus tam astrologis quam chymicis perutile et iocundum. Parisiis apud Carolum Sevestre et Davidum Gillium via Iacobea et Ionnem Petit-pas via D. Ioannis Lateranensis in collegio Cameracensi, MDCXI. [Paris, 1611] Not seen: from Thorndike, *History of Magic*, etc, 6, p 324. Thorndike notes that the above work was published "for the greater elucidation" of Petrus Arlensis de Scudalupis' work, *Sympathia*, etc, which see, and "despite the other work's rejection of them, Albinius gives various rings of the planets, seals of the twelve signs, and other images, which he assured the reader were strictly astrological, not magical. He also associated hierarchies of angels with different stones and colors for magical purposes. Yet the work was printed with royal privilege. Thus gems retained their magical associations into the seventeenth century."

This work was reprinted in the Hamburg, 1717 edition of Leonardus' *Speculum Lapidum* as follows.

60. -----1716, Hamburg, with own title

Magia | Astrologica, | Hoc est: | Petri Constantii Albinii | Villanovensis, | Clavis Sympathiae | Septem | Metallorum, | Lapidum ad Pla- | Netas. | Pro majore illius illucidatione | Opus tam Astrologis, | quam Chymicis per utile | & jucundum. | Liber olim impressus Paris. 1611. apud Carol. | Sevestre & David Gillium, | Jam propter ejus raritatem recusus | Hamburgi, | Apud Christian. Liebezeit Anno 1716.

8°: 84 p; [Bb4]-Gg5. Cont: tp, text. JSL.

Principal discussion of rings, and the metals they should be made from as correlated to the twelve signs of the Zodiac p 32-38, and stones, ranked in primary, secondary, and tertiary groups, p 64 ff.

al-BĪRŪNĪ, see BĪRŪNĪ; also SAID, H M

60-A. ALBMAIER, THEOD I quatro elementi spiegati in 25 discorsi, ne quale si ragiona delle cosi principali che nascano in essi, delle pietre preziose, de muschio, dell'ambra, del balsamo, del zibetto, de metalli, &c. Firenze, 1668, 4°. Agassiz 1, 111; Böhmer 4, 1, 281. Not seen.

61. ALBURGER, James R Faceting techniques simplified. Los Angeles: Shannon-Glow, Inc, 1980. Paperb: 100 p; b&w ills. 8.5 x 11 in. $15.00. Rev *Lap J*, 34, 9, 1980, 1998; not seen.

62. ALCOLEA, SANTIAGO. Diamantes. [Barcelona: Joyeria Bagues, 1966.] 18 p, f, engravs. 18.5 cm. Biblioteca Nacional V/C^{a} 6303-15. Not seen.

ALCÓN, T R, see STEINGRÄBER, E, 1968

ALCOTT, TEN [Pseud of TOTTEN, CHARLES ADIEL LEWIS(1851-1908)]

B New London, CT; grad US Military Acad 1873 prof military sci St Paul's Cathedral Sch, Garden City, Long I, 1883-86; First Lt US Army comm 1886. Pseudonym formed from last three letters of the the name + initials of given name.

63. -----1887

Nativity | Its | Facts * and * Fancies * Legends * and * Lore. | Almanac And Perpetual Calendar | Of | Cabalistic | Texts, • Gems • Talismans • Guardians. | By | Ten. Alcott. | [wreath] | "Rings, gauds, conceits, | Knacks, trifles, nosegays, sweetmeats." | Charles Lamb, Essays of Elia. | [wreath] | New York: John Wiley & Sons, 15 Astor Place. [1887]

Title encl in very ornate frame, using various elaborate type styles of the Victorian fashion, & numerous orns, scrolls, flourishes.

4° oblong: [1]f (with ruled frames on both sides, else blank) + col front engrav pl (aquamarine-set rings), tissue gd + x, 112 p, + [12]f (first f bearing the title "The | Nativity | Of...", the remainder blank save for ruled frames on all pages; ahead of this section is tip-in pale red slip offering a prize of $100 and numbered on its stub, eg, "Number 112" in this copy). Pale turquoise cloth, patterned with blind lanceolate leaves; beveled bds; following gilt title on cover: "Gems | Talismans And Guardians |.. .| By | Ten. Alcott." Floral gilt pattern endp. Aeg 23.5 x 32 cm(9 1/4 x 11 7/8 in). LC 11-907. JSL.

Variant re-issue: dark blue(fading to purplish) cloth, blind pattern of small floral bouquets; final ff, unnumb, not all printed with blank frames noted above. Diff endp.

Cont: blank f; front pl; tip-in notice of prizes referring to tip-in coupon at p 112; tp; publ data; dedic; poem; pref; tab cont; quotation; introd quotation; Biblical quotation; introd; text in numerous chs and with tables, lists, etc to p 112; pink slip; unnumb ff.

A remarkable work and one of the most interesting to be found in its treatment of the curious lore of gemstones, especially in connection with birthdays. It is a wonderful melange of information gathered from many sources and designed to assist the reader in casting his own horoscope as well as to learn what gemstones will be most influential upon his person, depending upon the moment of birth. The text is larded with poetic excerpts among sections on the significance of the birthday, the kinds of sentimental and symbolical jewelry that may be worn, descriptions of gemstones, talismans, and guardians, and with tables of data arranged according to zodiacal periods and an extended alphabet of talismanic, precious, and semi-precious stones and amulets. The book itself is a classic of Victorian design in which type fonts are used with complete disregard of consistency and obviously selected for complexity of designs. The frontispiece plate is of special merit because eight gold rings, set with faceted aquamarine gems, appear in the center of the elaborately scrolled larger ring design in brown ink with accompanying letterpress in brown & black. A very scarce if not rare book; I have found only three copies in 30 years!

64. ALCOUFFE, DANIEL The collection of Cardinal Mazarin's gems. *The Burlington Mag*, London, 66, 1974, p 514-26. Not seen: in COCKS, A S & TRUMAN, C, biblio p 372.

65. ALCOUFFE, DANIEL; JESTAZ, BERTRAND & VERLET, COLOMBE

Dix siècles | de joaillerie française | Musée du Louvre | 3 mai - 3 juin 1962 | Ministère d'Etat Affaires Culturelles

P[7]: "Le catalogue a été rédigé grâce au labeur de trois jeunes chartistes... Alcouffe ... Jestaz... Verlet."

8°: 141, [16], [3 blank]p; 13 col photos on wrap & flaps(inward folding, the front flap twice); floor plan. Heavy white, glossy wrap, photos (as above) & title on front & spine. 21 x 15.8 cm(8 1/4 x 6 1/4 in). Cut. JSL.

Cont: blank f; tp;letter; plan & caption; text; biblio (p.147-8, 26 entries); index to names; lenders; key to col photos; publ data; blank f.

Printed slips of variously-col charcoal-type paper as tip-ins at beginning of each section.

Catalog to an exhibition celebrating six centuries of French jewelry held in the Louvre, Paris; numerous items loaned from private parties as well as governments, eg, the Hope diamond from the USA. In addition to the treasures of the Apollon gallery in the Louvre, the Sancy, the Grand Mazarin and the Hortensia diamonds were also shown.

ALDINI, GIOSEFF-ANTONIO(1729-1798)

Although Aldini stud law at Cesena, he became intensely interested in the classics and antiquity in general, also natural history, and devoted his life to same. *Diz Biogr Ital*, 2, 91-2.

66. -----1785

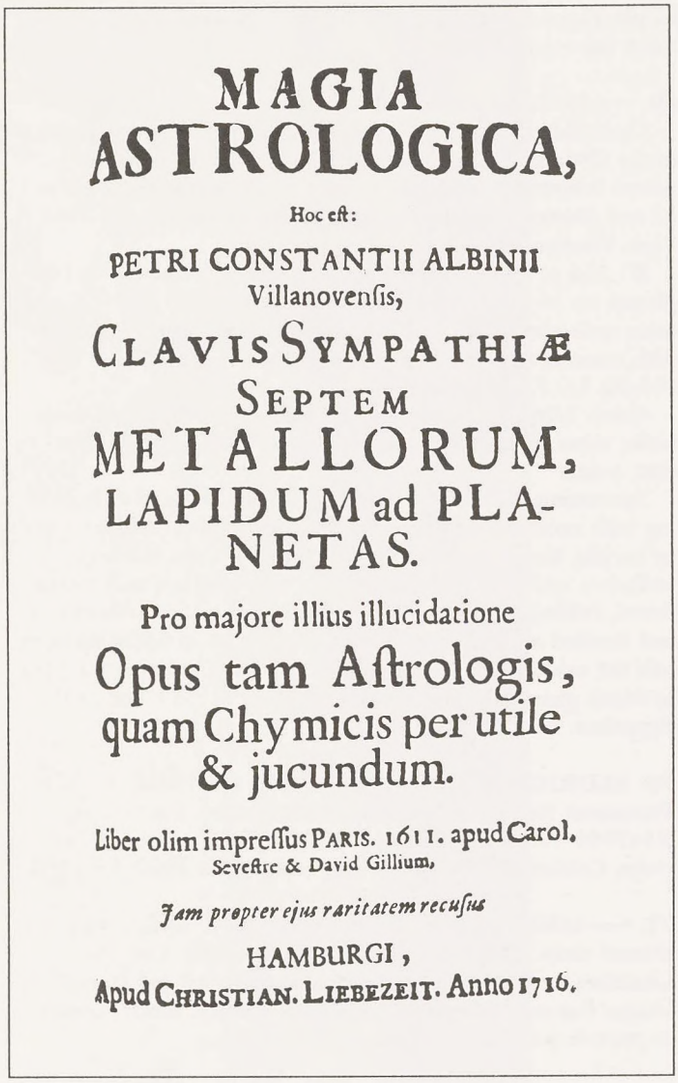
Instituzioni | Glittografiche | O Sia | Della maniera di conoscere la qualità, e natura | delle Gemme incise, e di giudicare del con- | tenuto, e del pregio delle medesime | Compilate, E Date In Luce | Da | Gioseff-Antonio | Aldini | Dottore, e Professor primario della piu amena | letteratura nelle pubbliche Scuole della Cit- | tà di Cesena, socio dell' Accademia | etrusca di Cortona, &c. | [woodcut orn] | In Cesena MDCCLXXXV. | [orn.rule] | Per Gregorio Biasini All' Ins. Di Pallade | Con Licenza de' Superiori. [1785]

8°: viij, 349, [1 blank]p; $*^4$, A-Y^8 (see note). Ch orns inits. 18.3 x 12 cm(7 1/4 x 4 3/4 in). Cut. JSL; De Golyer Coll; Cicognara 2730.

Note: according to the last signature, there should be a final blank p; one copy examined shows p 349 for corrections ("Protesta") but another copy seen substitutes a cancel with considerably more corrections.

Cont; tp; dedic; approbations; pref; tab cont; 14 ch; errata; blank f (?).

Virtually an abbreviated encyclopedia of the major aspects of gem engraving. Topics include history of the art, principal gemstones and materials used, names of Greek and Roman gem engravers and their most important productions, the several gem engraving schools in Italy and elsewhere, a description of the Museum Odeschalcum, its history, contents, etc, comments on books written about engraved gems by Agostini, Gori, Passeri, Ficoroni, Galeotti and others, abraxoid gems, talismanic gems and others of supposed magical power, with remarks on the superstitions and lore attending them, fake gems and the methods of making them and how they can be detected, and lastly, remarks on the organisation of engraved gem collections and some famous cabinets, especially in Italy. See also P & H Zazoff, *Gemmensammler*, 1983, p 175.



MAGIA
ASTROLOGICA,

Hoc eſt:

PETRI CONSTANTII ALBINII
Villanovenſis,

CLAVIS SYMPATHIÆ
SEPTEM
METALLORUM,
LAPIDUM ad PLANETAS.

Pro majore illius illucidatione

Opus tam Aſtrologis,
quam Chymicis per utile
& jucundum.

Liber olim impreſſus PARIS. 1611. apud Carol.
Severtre & David Gillium,

Jam propter ejus raritatem recuſus

HAMBURGI,
Apud CHRISTIAN. LIEBEZEIT. Anno 1716.

60. Albinius' astrology of gemstones was given its own titlepage although it was shown with a Hamburg, 1717 edition of Speculum Lapidum

67. -----1786.

Osservazioni sulle gemme incise scritte da un accademico etrusco in proposito delle istituzioni glittografiche recentemente publicate dal dottor Giuseppe Antonio Aldini di Cesena. In Milano, Nella Stamperia di Francesco Pogliani, e Francesco Pulini, 1786. 56, [2]p; 1 l.; ills; 19 1/2 cm. GS 34-315, Kunz Coll. Not seen.

ALDRED, CYRIL (1914-)

B London; stud art hist King's Coll, Courtald Inst, & U Lond., grad 1936; asst Keeper, Roy Scot Mus, Edinburgh 1937; assoc curator Metro Mus Art New York 1955-6; Keeper, Dept Art & Archaeol Roy Scot Mus 1961-; authority on Egyptian art; wrote other books on Egypt.

68. -----1971 Jewels of the pharoahs; Egyptian jewelry of the dynastic period. Special photography in Cairo by Albert Schoucair. London, Thames & Hudson; N.Y., Praeger [1971]. 256 p,

ill, pls. Paper £2.75, hardcover £4.95. Not seen; from Arntzen, P594 but see next entry.

69. -----1971, New York edit

Cyril Aldred | Jewels | Of The Pharoahs | Egyptian Jewelry of the Dynastic Period | Special Photography In Cairo By | Albert Schoucair | 100 colour plates | 56 monochrome plates | 37 text illustrations | [publ logo] | Praeger Publishers | New York. Washington [1971]

8°: 256 p; 100 col photos on 32 glossy f bound-in; 56 b&w photos on 16 glossy f bound-in; 37 line drawings in text. Terra cotta unfinished cloth, gilt spine title. Col dj; col photo covers, with resume, vita. 24.7 x 18.4 cm(9 3/4 x 7 1/4 in). Cut. $15.00. LC 72-108266; JSL.

Cont: 1/2tp; tp; publ data; tab cont; 6 ch; epilogue; chron table; notes on ills; ackn; biblio (p.246-9, 118 entries); notes on text; index.

Interesting, authoritative, and well-balanced work commencing with notes on the recovery of the jewels from ancient hoards or burials, the uses to which jewelry was put, the materials, craftsmen and their tools, techniques in metals and non-metals, forms, following which is the chronological table and extensive and detailed notes on the illustrations, the latter taking up nearly half the work. Gemologists will find much of value in this work in which gemstones play a prominent role in the jewels of the Egyptians.

70. ALDRICH, JOHN M & DAVEY, GEORGE T The Permanent Record of Gemstone Identification. Pat pending #147984. Aldrich & Davey, 14430 Victory Boulevard, Van Nuys, California, 1949. Not seen; reprint Mar 1950, Jul 1950.

71. -----1950, 2nd edit Centerstapled: 30 p, 38 figs, Pale blue printed wrap. 21.1 x 13.7 cm(8 1/4 x 5 3/8 in). Cut. JSL. Describes a method for examining faceted gems and recording unique features, esp errors in the facet junction meets, in order to provide positive identification.

ALDROVANDI or ALDROVANDUS, ULYSSIS or ULYSSE(1522-1605)

B in a noble family of Bologna; stud botany, medicine and other sciences; MD 1553; chair of nat hist Bologna 1560; spent his fortune collecting specimens & engravings. Fantuzzi: *Memorie della Vita di Ulisse Aldrovandi*, Bologna, 1774. Pogg 1; DSB 1, 108-110; Biogr Univ 1, p 474-5; Brunet, 3, 934; *Abridged Trans Roy Soc London*, 2, 442.

72. -----1648

Vlyssis Aldrovandi | Patricii Bononiensis | Musaevm Metallicvm | In Libros IIII Distribvtvm | Bartholomaevs Ambrosinvs | in patrio Bonon, Archigymnasio Simpl. | Med. professor ordinarius, Musei Illustriss.[mi] [sic] | Senatus Bonon. et Horti publici Prefectus | Labore, et Studio composuit | cum Indice copiosissimo. | Marcvs Antonivs Bernia | proprijs impensis in lucem edidit | Ad Serenissimvm | Ranvtivm II, | Farnesivm | Parmae Placentiae Etc. | Dvcem VI. [at base: "Effodivntvr Opes"]

No date; last p. : "Bononiae, Typis Io. Baptistae Ferronij 1648," ie, Bologna.

Entire titlep engrav: central portr (of A ?) at top, supported by cupids, Corinthian column on each side, central panel with title, and below, mining scenes. Signed "Io. B. Coriolanus F."

2° tp + [4], 979, [13]p ; title leaf supplied; text collation: ¶^{2}, A-Nnnn^6 , Oooo^4 (second f missigned "Pppp2"); ca 380 pages bear woodcuts many multi-fig; ch orns, inits. 35 x 23.5 cm(14 x 9 1/4 in). U OK DeGolyer Coll; U Ill Libr; JSL. Agassiz 1,113; Böhmer, 4, 1, 30.

Cont: engrav title; dedic by Bernia; pref by B Ambrosini; imprimaturs; text in 4 bks; index ending with register of sigs & colophon.

In a lifetime devoted with unremitting zeal to the study of natural history Aldrovandi produced materials for 13 volumes, of which three on birds were published 1599-1603, another on insects 1602, with the rest, edited by pupils, published after his death, including the present volume on mineral productions of the earth. This last was edited by Bartolommeo Ambrosini (1588-1657), a Bolognese physician and writer on botany who also edited three other volumes of Aldrovandi's enormous compilation. The present volume, misleadingly entitled "metallicum," includes some metallic ores to be sure, but mostly it describes an amazing hodge-podge of poorly organized data which treat not only those substances which we properly regard as products of the crust, but also fossils of every description, concretions, geodes, stones with figures in them that could be likened to living things, the so-called "lusus naturae," corals, fossilized resins, and other materials which are either found in the earth and soil or which by virtue of hardness seem related to the materials of the crust. Also included, but only incidentally are objects made from mineral raw materials as weapons of metal and stone, engraved gems, carvings, statues, lamps, implements, and even a famous turquoise-encrusted mask of Precolombian Mexican work. Some of the objects are illustrated by sketchy woodcuts throughout the text. Many, despite the crudity of execution, are easily recognizable likenesses but others are not, and if were not for accompanying identifications in the text, would be quite unrecognizable.

The work is divided into four books, namely, (1) metals and ores, but with numerous fossils integrated in the text, (2) earths, (3) "succi concreti," by which is meant concretions and congelations believed to have grown from the accumulation of smaller units and thus here embracing corals, and last, (4) minerals, stones, and including gemstones, but again with numerous fossils too. Specific references to gemstones are coral, p 284-97, amber, 403-18, jet, 418-24, siliceous stones in general, 706-44, passim,marbles, 746-79, and p 858 to the end, passim, petrified wood, lapis lazuli, jaspers, agates, heliotrope bloodstone, prase, malachite, turquoise, more agates, chalcedony onyx, sard, crystalline quartzes, beryl, diamond, carbuncle, ruby, hyacinth, sapphire, emerald, topaz, and opal. A few woodcuts of engraved gems occur here and there.

An extended commentary on this work, of much value, is that of F D Adams, *Birth and Development of the Geol Sci*, p 165-8, in which he devotes much discussion to the first use of the term "geology" in its modern sense, attributing such primacy to notes left behind by Aldrovandi, but also noting that this term is not used in the present work. The confused organization which evoked Cuvier's unfavorable remarks did not escape the attention of Adams (ibid) who states that "within each book there is no definite order in which the subjects are treated. The work, however, is provided with a good index." Also, "in each chapter the object or subject is treated of under a regular series of



72. Marvelously detailed, fully engraved titlepage to Aldrovandi's encyclopedic description of minerals, gemstones, ores, and fossils, hence a "museum" so to speak

headings... as for instance Synonyms, Definition, Origin, Nature and Properties, Varieties, Mode and Place of Occurrence, Uses, Historical References... Sympathia et Antipathia, Mystica, Miracula, Moralia, Mythologica, Somnia, Symbola and Lapidati." The first group of sub-headings says Adams "are such as might be found in a modern textbook," but the second group, dealing with curious lore, "remind us that the book was written in an age far removed from the present." See also remarks in Thorndike, *Hist Magic Exp Sci*, vols 5 & 6. Pogg 1.

G Sarton, *The Appreciation of Ancient and Medieval Science During the Renaissance(1450-1600)*, Philadelphia, 1955, p 113-6, notes that "each of these big volumes was reprinted" and "I do not know of another example of a work, the author's masterpiece, the publication of which began so late in life [Aldrovandi was 70!] ." Aldrovandi's collection was bequeathed to his native city of Bologna and was incorporated in the Cospi Museum of that city, as described by Lorenzo Legati, *Museum Cospiano Annesso Del Ulisse Aldrovandi*. Bologna, 1677, 530 p.

73. ALEKSEYEVSKIY, K M ; NIKOLAYEVA, T T & PROKOPCHUK, B I. Almazonosnyye formatsii [Diamond-bearing formations]. In: *Geneticheskiye Tipy Osadochnykh Rudonosnykh i Uglenosnykh Formatsiy*, edit CHAYKOVSKIY, V K, p 159-79, tab. Moskva: Izdatelstvo Nauka, 1974. Not seen.

ALEXANDER, A E, see SUTHERLAND, B B

74. ALEXANDER, RICHARD

[Yü character] | Jade | Its Philosophy | Shine Of The Star Of Life | Su-Sen | by | Richard Alexander [New York: Wing and Company, 1928]

Wrap title. Edgestapled(green silk tie via two holes also): [4], 64 p, 14 photos on 4 pls., 9 figs. Pale green heavy paper wrap, green lett on cover. 24.1 x 15.6 cm(9 1/2 x 6 1/8 in). Cut. Glossy paper, slightly yellowish tint. Wrap overlaps contents. LC 28-18928; JSL.

Cont: first [2] f with 3 photos & sketch; part one tp; publ data; 12 sects (ie, "kow-tows"); another tp; two pls bound-in; tp to part two; 12 sects(ie "galleries"); astronomical jade symbols; parts three to five(without titles), The entire work contains 100 numbered paragraphs.

The most remarkable assemblage of astrological claptrap on jade that I have ever seen. All of it is incoherent and much nonsensical. Some passages seem to read logically until one encounters juxtapositions of terms taken from Chinese folklore and those taken from astrology which defy understanding, unless he happens to be privy to the secret language employed by the author. The more intellible passages have been borrowed from recognized authorities, eg, mineralogy of jades from *Encyclopaedia Britannica*. In some sections signed by the author he entitles himself "Secretary, Philosopher's Library, New York." The pen-and-ink sketches are from his hand. One may amuse one's self by reading through this work, but it will not always be a pleasant experience because of the nonsensical passages and use of obscure language. G M Born, p 38-9; Yang, 1065.

ALFONSO X, King of Spain, also called ALFONSO EL SABIO (1226?-1284)

King of Castile & Leon from 1252 to 1284; conducted wars against Moors, 1261-6; promulgated a code of laws forming the basis of Span jurisprudence; a poet, intellectual, patron of learning and the arts. DSB 1, 122; Biogr Univ 1, 617-9.

75. -----1881

Lapidario | Del Rey | D. Alfonso | [orn.rule] | Codice Original [Madrid, 1881]

Title in ornate colored scrolled lett, medieval manuscript style, with lett in gray-blue & red; outlines & flourishes in red against pale tan panel; the title leaf is a tip-in.

Facing the title: "Madrid | [rule] | Imprenta De La Iberia, Á Cargo De J. Blasco | Calle De Lope De Vega, Núms. 23 Y 25 | 1881"

4°: XXp (title leaf not includ) + [6]p (last p blank) + [2]f (Facsimiles of letters) + [1]f blank + 118f (col reproductions of the original ms; last p blank) + [14] f (additional col reprod of orig ms) + 75 p (transl into Sp). Pale brown paper over bds, brown buckram spine, paper title label(black lett in red frame). Pale tan endp. 35 x 22.7 cm(12 1.8 x 9 in). Teg; fe untrimmed. GS 34-397(Kunz Coll); JSL.

Cont: 1 f with publ data v ; tp; prologue by José Fernandez Montaña, sometimes shown in catalogs as "editor;" "informe..." by Aureliano Fernandez-Guerra & Pedro De Madrazo; facsimile ltrs of certification; blank f; chromolith pls, in two parts; commentaries & transl.

Splendid full-color reproductions of the leaves of the only known illuminated manuscript of the famous work by the learned Alfonso, King of Spain, who flourished during the 13th century, and which treats the magical properties and astrological affinities of gemstones primarily, but also those of a number of other minerals. The original is preserved in the San Lorenzo Library, Escurial, Madrid. According to Montaña, the ms has no formal title and is therefore usually given that shown above as a matter of bibliographical convenience. Montaña also suggests a probable origin and history of the original, and further comments on its literary, scientific, and artistic merits. The facsimile letters reproduce certificates attesting authenticity and approval for the publication in this book.

Joan Evans, *Magical Jewels*, 1922, p 41-50, provides a useful analysis remarking that "the prologue states that the lapidary was begun in the twenty-fifth year of the reign of Alfonso... and was finished two years later in 1278... the index to the Escurial Codex states that the first part... is by Arbolays(Abu Laith), who treats of sigils and of their effects on stones according to the degrees of the twelve signs of the Zodiac..." She also notes that "the second part... is by Timtin, who treats of other sigils made according to the degrees of the signs... in conjunction with metals... the third part is by Pythagoras, who speaks of other kinds of sigils which fall into the same degrees as those which affect men at their birth... the fourth... by Ylus, who writes concerning the sigils made in stones according to the faces of the signs...fifth... by Belynus and Ylus, and treats of many sorts of sigils... sixth... by Pliny and Delynus and other wise men... seventh is by Utarit... eighth is by Ragiel... ninth by Yacoth... tenth is by Ayi... eleventh agains treats of sigils." Further to the codex contents, "The Escurial Codex is said by its editor to contain only the first part of the lapidary... but the codex contains four parts, and it is the first of these which... is clearly to be identified with that of Arbolays. The second... has thirty-six chapters, and it would seem extremely probable that it represents the fourth part... attributed to Ylus." Evans also discusses the third part and the work of Belynus and Ylus and concludes that

Plate of Aquarius is not in any of our 3 copies

both are very likely identical. "The fourth part... treats of the virtues of the stones according to the constellations under which they are formed, and of the shapes and colour they receive at their formation, and also shows how these are affected by the virtue of the planets which engender and create them. It is ascribed to Muhammed Abenquich, and is a separate treatise, having no direct connection with the *Lapidary of Alfonso X.*" A less detailed analysis appears in Mély, *Les Lapidaires de l'Antiquité et du Moyen Age*, 3, fasc 1, p viii, who notes that the work consists of three distinct treatises, the first (Arbolays), is zodiacal and astronomical and treats stones in accordance with their "rapports" with the signs of the zodiac, the constellations, and the stars; the second is a planetary treatise, ie, planets and their relationships to stones, based on Chaldean lore, and attributing a certain color to each planet and hence, to a stone of similar color; the third,treatise is essentially a work on magical and medical virtues of stones by Mahomet Aben Quich. In the same section Mély provides further remarks, the long list of gemstone names, p xvi-xxiv, mainly found in Alfonso's work but also in other lapidaries. Another extended discussion of Alfonso's lapidary is in *Connoisseur Mag*, Jan 1906, p 31-6; see also KELLER,P J, *Gems & Gem*, 9, 1958, p 105-10,118-21; *Min Abstr*, 14, 2, 1959, p 119.

Insofar as the introduction to the present work is concerned, it remarks on problems involved in translation, notes other treatises and commentaries, and describes existing codexes and their contents. The group of line drawings mentioned in the description refers to similar small drawings used in the original ms for zodiacal and astronomical signs.

76. -----1968, Valencia. ... Rey de Castilla. Lapidario. Texto íntegro en versión de María Brey Mariño... [Valencia], Castalia, 1968, XXXp, 1 leaf, 275 p, pls 2 leaves. 19.5 cm. (Odres Nuevos). Biblioteca Nacional 1/122672. Not seen.

77. -----1970, 2 edit

Alfonso X, Rey De Castilla | Lapidario | Texto integro en version de | María Brey Mariño | Segunda Edición | El vierta añejo vino en odres nuevos | M. Menéndez y Pelayo | Editorial Castalia | "Odres Nuevos" | 1970 [Zurbano, 39 - Madrid (10)]

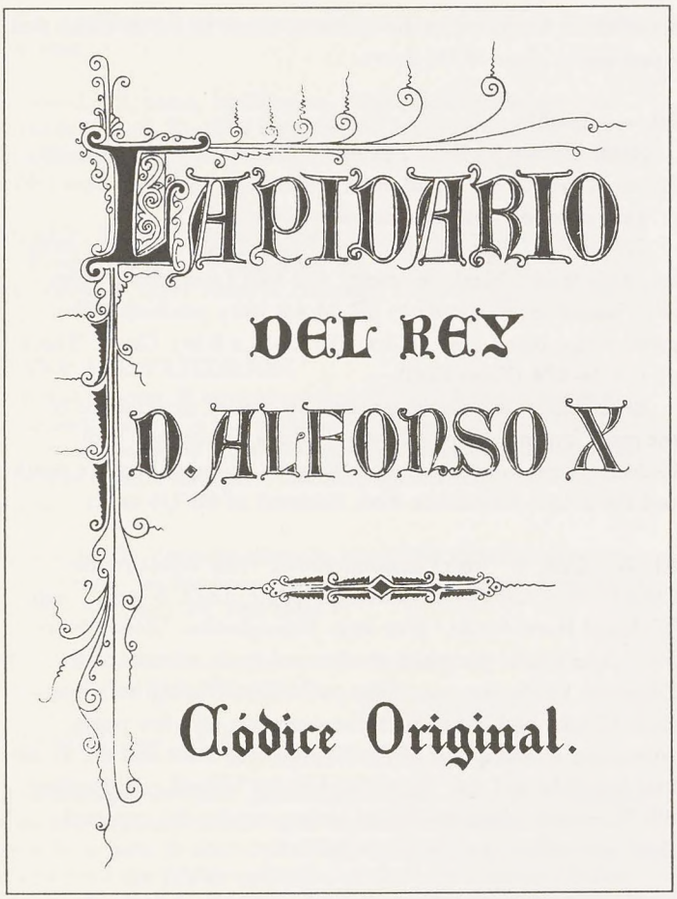
"Odres Nuevos" = Clásicos Medievales En Castellano Actual."

16°: XXX(first [2]p blank), [2], 275, [5], [1 blank]p; 47 line drawings. Heavy white paper wrap, decorated medieval fashion in black & color on front cover; title in black & red; spine title; small line drawing back cover. 19.1 x 13.4 cm(7 1/2 x 5 1/4 in). Cut. Deposito Legal: v. 4.515-1970.

Cont: blank f; 1/2tp; other series bks; tp; publ data; introd; figs sect title; figs; prologue; text; index of stones cited in the lapidary; index of misleading names; astronomical bodies index, etc; index of persons; subject index; biblio (p 273-5, 35 entries); general index to the present work; blank p; colophon; copy no (?).

A scholarly re-examination and analysis of the Alfonso X ms of the Escorial and one that must be consulted for any further study of this ms.

78. ALFRED H SMITH & COMPANY A short sketch of the African diamond mines. With tables for calculating the prices of precious stones and ascertaining their distinguishing characteristics... New York, London [etc] Alfred H. Smith & Co. [ca 1881] 30 p incl tabs front. 26 1/2 cm. Not seen: from GS 34-52l(Kunz Coll.).



75. Spanish King Alfonso X wrote a mystical treatise on gemstones which was later reproduced from a colored manuscript with the above titlepage and published in Madrid in 1881

79. -----1881

Short Articles | On | Pearls and Precious Stones | With Tables showing their distinguishing characteristics, and | for calculating their values at specified rates. | Presented with the compliments of | Alfred H. Smith & Co. | Importers and Dealers in these goods exclusively, | 162 Broadway, | Corner John Street. New York. | Chicago: Foreign Office: | 103 State Street. 21 Holborn Viaduct, London, Eng. [1881]

In some copies, N.Y. address covered by pasted slip bearing red lett.: "170 Broadway,| Broadway and Maiden Lane Building | New York | [rule] | Our London Office removed to 6 Holborn Viaduct." The London address is underlined. Copyright 1881 appears here also but the text indicates that the work was published after 1896.

4°: [30]p, [3] glossy f bound-in bearing 3 photos. Dark green textured cloth, the word "Gems" in gold on cover. 26.2 x 20.5 cm(10 3/8 x 8 1/8 in). Cut. JSL.

Cont: front pl; tp; 2 pls; fwd; text; properties tab; blank p; publ note; weight vs price tab.

Brief descriptions of diamond, pearl, ruby, sapphire, and emerald; a table of gemstone properties and characteristics; lengthy table of weight/price calculations. The frontispece reproduces a woodcut view of the Kimberley mine,the other plates

show native workmen in the diamond mines of South Africa and a processing plant of De Beers.

80. -----1902?

[Coat of arms] | Rare | Jewels | [monogram] [New York: Alfred H. Smith & Co, nd, post 1902?]

Title in raised gold lett. on wrap cover only.

Centersewn, with white cord tie: 16 p (each actually a doublep, with insides blank, fe uncut) + 2 fold f (actually 4 pages wide bound-in; many photo ills. Moire ivory parchment-like paper wrap; cover title. 20.3 x 15.1 cm(8 x 6 in). Uncut. Tissue dj. GS 34-874 (Kunz Coll).

Brief general treatise on gemstones, nature, descriptions of the most important, famous gems, pearls, rubies, etc, with foldouts of pearl-set jewels including the Empress Eugenie pearls and the Prince Edward or York diamond of 60 1/4 carats.

81. ALGAR, F The Diamond Fields: With Notes on the Cape Colony and Natal. London, F.Algar, 1872. 8° 64 p, map. "Colonial Hand-books." Not seen. Mendelssohn: "About fourteen pages of the pamphlet are devoted to an account of the Diamond Fields, the rest of the publication dealing with the Cape Colony and Natal, with the exception of a few pages containing a description of the Orange Free State and the Transvaal Republic and the 'Tatin' Gold Fields." Theal, p 6. Southey, 89: "Contains advice to settlers setting out for the diamond fields and other parts of South Africa."

82. ALLEMANN, WALTER

Walter Allemann | Von Juwelen Und Frauen | Verlag Mensch Und Arbeit · Zürich [1956]

Cementb: [8], 149, [1], [1 blank], [1]p; glossy photo front. pl (portr of author); 12 col & 11 b&w photo pls on glossy f; 12 text figs. Unfin brownish-yellow cloth, gold lett in gold frame on cover; gilt spine. Col dj, resume, vita. 24.4 x 18.2 cm(9 5/8 x 7 1/4 in). Cut. JSL

Cont: 1/2tp; pl; tp; publ data; dedic; tab cont; fwd; 16 chs; blank p; biblio(34 entries).

Traces women's jewelry from earliest periods to the present; special mentions of ancient civilizations bordering Mediterranean. Simply written, sometimes as conversations between historical persons. Use of gemstones for medicinal and magical purposes is emphasized. A chapter is devoted to famous jewels and gems. The author was a jeweler in Zurich.

83. ALLEN, CHARLES V Diamond Mining In The Kimberley Field. *Notable Mines and Minefields*, Collected Set No.27b, Notable Articles Collected From *The Engineering Magazine*, Kean Street, Aldwych, London, W.C. No date, ca 1903, v 19, no 10, p 81-98; 10 ills & with the same author's The Mechanical Equipment Of The Kimberley Diamond Mines, ibid, p 177-92, 12 ills. JSL. Orig. issues/date not stated; articles assembled & bound in heavy print wrap, but also available as a series, maroon cloth, gilt.

ALLEN, H E K, see LEGRAND, J

ALLEN, J B, see GRANTHAM, D R

ALLÉON-DULAC, JEAN-LOUIS(1723-1768 or 1770)

Lawyer in Lyon, but gave up practise to become postmaster in St. Étienne en Forez in order to more easily study natural history. *Biogr Univ*, 1, 590. Thomas Dict gives 1770 as yr of death.

84. ----- 1762 Mélanges d'Histoire naturelle, 8°: 2 v. (Biogr Univ). Not seen.

85. -----1765, another edit in 6 vol

Mélanges | D'Histoire | Naturelle. | Par M.Alleon Dulac, Avocat en | Parlement & aux Cours de Lyon. | [double rule | [Latin quot 2 lines] | [double rule] | Tome Premier[-Sixieme] | [vignette, an eagle with banner reading "De Plano In Altum"] | A Lyon, | Chez Benoît Duplain, | rue Merciere, à l'Aigle. | [double rule] | M. DCC. LXV. | Avec Approbation & Privilege du Roi. [1765]

8° I: xvj, 456 p, fold engrav pl; II: xv, [1 blank], 471, [1] blank p + [4] p approb, etc, 5 fold engrav pls; III: xij, 467 p, 3 engrav pls (2 fold); IV:viij, 472 p;2 fold engrav pls; V:xij, 500p (no ills,); VI: viij, 536p (no ills,). Numerous head- and tailpieces, margin rules & printed notes. 16.6 x 10.6 cm(6 1/2 x 4 1/8 in). Cropped. JSL. Agassiz, 1, 119.

Cont: l/2tp; tp; pref; tab cont; pls; text(in general, some with pls in text, some without prefaces).

Short articles, condensations, extracts, etc culled from current scientific journals, some short, some several pages long. Gemological: volume I: *Mineralogie* of Wallerius discussed, with Wallerius reply(on flint & agate, p 251-65);speculations on process of lapidification of fossils and woods, p 282-303. Vol II: chemical comp turquoise, p 16-20; mines of Lower Austria and much on "Moravian Stone," a type of banded decorative stone, p 22-46; voyages of Tozzetti in Tuscany with remarks on marbles, building stones, rock crystal,alabaster, p 190-241; marble, p 434-6. Vol V: diamonds, p 157-8; Steno's "Corps Solides," p 166-72; Mendes Da Costa's *Natural History of Fossils*, p 241-7. Vol VI: an important article on Aldrovandi's cabinet of natural history, p 71- 149; rock crystal on Mt Ida, p 150; marble of Paros, p 200-1; a long essay by Lieberoth, an officer in the Saxony mines, on the generation and regeneration of minerals, including the story of diamonds regenerating in the mines of India; topazes of Brazil, by Guettard, p 405-14.

86. ALLISON COLLECTION

The Allison Collection Of | Rare Jewels | And Gemstones [1971]

Wrap title, white & pink on pale red background; large color photo of precious opal in gold pendant. Inside front cover: "First published in Australia 1971 by Horwitz Publications, a division of Horwitz Group Books Pty Ltd... North Sydney."

Centerstapled: [36]p includ covers; 101 photos(all col save one) & includ cover photos. 25.7 x 18.1 cm(10 1/8 x 7 1/8 in). Cut. Wrap with publ data, and photos on inner surfaces as well as on cover. JSL. A booklet of color photos illustrating the faceted & cabochon gems permanently exhibited at The Diamond Traders Gem Gallery in Sydney; includes all major and many minor gemstones, some with matrix specimens also. Good photo quality.

ALOISI, PIERO(1881-1938) & BALDASSERONI, VINCENZO

P Aloisi stud U Pisa, asst to G d'Achiardi; extraord prof mineralogy U Firenze 1924, ord prof 1927, and later prof; wrote several important works and papers on petrography and mineralogy. Biogr note L J Spencer, *Min Mag*, 28, 199, 1947, 177.

87. -----1932

Piero Aloisi | Ordinario di Mineralogia nella R. Universitá di Firenze | [rule] | Le Gemme | Trattato Sulle Pietre Preziose | Con Un'Appendice Sulle Perle E Sui Coralli Di | Vincenzo Baldasseroni | Libero docente di Zoologia nella R. Universitá di Firenze | CVI Figure Nel Testo | XII Tavole In Nero E IV A Colori | [logo] | Firenze | Felice Le Monnier | 1932

8°: XIX(first f blank), [1 blank], 405, [1 blank], [1], [1 blank]p; 4 col pls, each with lett tiss gd, cut-outs mounted on stiff black f bound-in + 12 b&w pls(2 with lett tiss gds and yellow backgrounds, 2 with lett tiss gds, 7 plain, and 1 with yellow background but no gd) + 106 figs; numerous ch orns. Lire 130.

Note on bindings: The Brit Mus (Nat Hist) Library copy bound in pale grayish-green cloth, gold ring & plume orn on cover, gilt lett, rules on spine; tan, pattern endp. 27 x 19.5 cm(10 1/2 x 7 5/8 in). Cut. My copy in patterned brownish-yell paper over bds, with one col pl dupl & pasted into a stamped recess on cover, and with tan, unfin cloth spine, brown leather label, gilt. 26 x 18.7 cm(10 1/4 x 7 3/8in). Cut. Prob also issued in wrap. AC 35-28; BM(NH) Cat; De Colyer, U Okla coll; JSL.

Cont: blank f; tp; publ data; Pliny quote; "Sommario" title; tab cont; "Prefazione" title; pref; "Introduzione" title; introd.; text in 3 parts; appendixes; indexes; blank p; colophon; blank p.

A handsome though intricately-designed & manufactured general work on the entire field of gemology, and with remarkable color plates, two of which, of cut & rough gemstones, were prepared specially for this work by Gaetano Lo Vullo. One plate shows a corner of an elaborately worked pietre dure tabletop. Introduced by a historical survey of the development of gemology with citations of past authors and their works. The first part treats crystallography, properties, origin and occurrence of gemstones, lapidary treatment, and commerce in gemstones, nomenclature of several hundred terms, and classification of gemstones. The second part is descriptive and groups gemstones according to their importance and mineralogical relationships. The third part briefly treats the identification of gemstones and distinctions between natural stones and synthetics & artificial gems. The appendixes by Baldasseroni fully discuss pearls and coral, the latter especially receiving detailed treatment because of its importance as the raw material of choice for carvers of small ornamental objects in the Naples region, but its actual working is given only a brief note. Text sketches and maps seem to be after similar illustrations in Bauer's *Edelsteinkunde*, 1909, There are many footnotes to the literature but unfortunately these are not collected into a list. Until recently this work remained the most important gemological treatise in Italy.

ALOPECIUS, H, see MARBOD, 1539

88. ALOPEUS or ALOPAEUS, S Kratkoe opisanie mramornykh i drugikh kamennykh lomok, gor i kamennykh porod, nakhodyashchikhsya v Rossiskoi Karelii. St Peterburg, 1787, 86 p. On marbles and other ornamental stones of Russian Karelia. Not seen.

89. -----1787, same, in German. Kurze Beschreibung der in Russisch-Kaiserl. Karelien befindlichen Marmor und ander Steinbrüchen, Berg- und Steinarten. St Petersburg, 1787, 645 p. Not seen. Agassiz 1, 121.

90. ALP, SEDAT Zylinder- und Stempelsiegel aus Karahöyuk bei Konya. Ankara, 1968. Cloth: xvi, 310 p; 254 pls, 31 x 24.5 cm. Not seen; from Thomas Heneage, London, Cat 8, 1984, no 169.

ALVERDES, FRIEDRICH

Prof zool Marburg U; experimented on pearl-bearing freshwater mussels to explain pearl formation; by 1913 he had successfully injected epithelial cells of the mantle folds of one mussel into another, resulting in development of a small pearl, which when examined was found to enclosed by epithelial cells of the so-called "pearl-sac."

91. -----1913 Versuche über die künstliche Erzeugung von Mantelperlen bei Süsswassermuscheln. *Zool Anzeiger,* Leipzig, 42, 10, 1913, 441-59. Not seen.

92. -----1913 Ueber Perlen und Perlbildung. *Zs Wiss Zool,* Leipzig, 105, 1913, 598-633. Not seen.

al-TĀMĪMĪ, see TĀMĪMĪ

93. AMERICAN ART ASSOCIATION Illustrated catalogue of an extraordinary collection of imperial jades and other beautiful objects in rock crystal, agate, lapis-lazuli and coral mostly from the private collection of the Late Captain J.F.Peel, London, England to be sold.. .by order of Messrs. Yamanaka & Co... American Art Association, New York, 1912.

8° 55, [2]p; 112 photos. Thin cardbds, enclosed in tan paper wrap with folding-in flaps. 22.9 x 15.1 cm(9 x 6 in). Cut. JSL.

Carved objects include snuff bottles, boxes, brush holders, vases, human & animal figures, other small objects, pendants, Indian jeweled jades.

94. -----1913

Illustrated Catalogue | Of | The Remarkable Collection | Of The | Imperial Prince Kung | Of China | A Wonderful Treasury Of | Celestial Art | Recently Acquired By The Widely Known Firm Of | Yamanaka & Company | New York, Europe, China And Japan | And | To Be Sold At | Unrestricted Public Sale | By Their Order | On The Dates Herein Stated |.... [3 lines]....| New York | 1913 [Title in red & black]

P [1]: "To be sold... February 27th and 28th And March 1st..."

8°: [322]p; front portr of P Kung[Ching Wang] + 224 photos(24 printed on one side of otherwise blank f). Heavy, pale tan printed wrap folding inward over heavy-stock endp. Red lett & gilt Chinese pierced disk on cover. 27 x 17.5 cm(10 5/8 x 7 in). Cut. JSL.

Cont: 1/2tp; portr; tp; pref; text tp; text; list of dynasties; catalog.

According to biographical notes in the preface, Prince Kung Ching Wang, of the Manchu dynasty, was a studious individual, early displaying an aptitude for foreign affairs and diplomacy but his liberal views displeased conservative elements in power and he was forced to take sanctuary in the German protectorate in China. He offered up his superb collection for sale as a result.

Among the several hundred jade and other hardstone pieces, a number of jades were highly important and commonly appear in subsequent collection catalogs. Also sold were about 100 bronzes, some cloisonné, many ceramic pieces, paintings, and other objects of art.

95. -----1917

Catalogue | Of | Rare Engraved Gems | Ancient Greek, Roman and Other | Coins, Amulets, Rosaries | And Other | Objects of Archaeological Interest | Collected By The Late | Mary Anna Palmer Draper | Of New York City | To Be Sold At Unrestricted Public Sale | At The American Art Galleries | Madison Square South, New York | ... [1917]

8°: [52]f, heavy pale tan print wrap, cover title; gallery seal back cover. 22.9 x 15.3 cm(9 x 6 in). Cut. USGS Libr, Kunz Coll.

Cont: tp; catalog tp; publ data; introd biogr of seller; sale cond; catalog 1/2tp.; catalog; blank p; advert; press data.

Included were "remarkably fine Babylonian cylinders" as well as other cylinder seals, scarabs, scaraboids, intaglios & cameos, a Poniatowksi gem and one engraved by Pichler.

96. -----1919

Illustrated Catalogue | Of The | Very Important Collection Of | Rare And Beautiful | Oriental Art Treasures | Belonging To The Estate Of The Widely Known | Expert, The Late | Rufus E. Moore | To Be Sold At Unrestricted Public Sale |....[5 lines]...| American Art Association, Managers | Madison Square South, New York | 1919 [Title in red & black]

8° ca 160 unnumb p; col front pl tip-in; many text photos, including a number tinted blue. Heavy inner wrap, end leaves blank, enclosed in pale tan outer wrap with title in red & black on cover; spine title; back cover with gilt assoc seal. 24.8 x 17.1 cm(9 3/4 x 6 3/4 in). Cut. USGS Libr, Kunz Coll.

Lists 1453 items of which many were jades and hardstones as figurines, containers, etc, several large in size; some snuff bottles included.

97. AMERICAN GEM AND PEARL COMPANY

Jewelry | Costuming [2 blue vertical rules to left] [1907?] Cover title; p.l: "From | Mines | To | Market [encl in ruled frame] Centersewn, blue cord: 32 p, 6 photos, pale blue-gray wrap. 14.5 x 9.9 cm(5 3/4 x 3 7/8 in). Cut. All pages enclosed in single-rule frames. JSL.

Interesting advertising brochure issued when the company was at its peak in exploiting native gem deposits, but only a short description of American gemstones is given, the major portion of text being devoted to a discussion of suitable gems for wear with certain costumes. Photos show aquamarine mine workings in Mitchell Co, NC, amethyst diggings in Nelson Co, VA, and an interior view of the company's lapidary shop.

98. -----1930

Notes On Precious Stones | Copr. by American Gem & Pearl Company, 1930 [New York City]

Edgestapled mimeo sheets in plain dull green cloth binding and without any cover title: [1], 68, [6]p; 27.6 x 21.5 cm(10 7/8 x 8 3/8 in). Cut. Paper brown, embrittled. JSL.

Contains tables of gemstones arranged by color, hardness and specific gravity, testing synthetics, descriptions of major gemstones & numerous lesser species, including collector rarities, and lastly, organic gemstones. The text may be by Morris Hanauer, for many years the owner, for the edification of his employees.

AMERICAN GEM SOCIETY

Diamonds | Their Purchase And Care | Authentic Facts Regarding Mining, | Cutting, and Qualities Which Af- | fect Their Value. Prepared by the | American Gem Society, a National | Educational and Trade Or- | ganization Similar to the | Guilds of Old.| [side view of cut gem] | Copyright 1938 by | American Gem Society | (United States and Canada) | International Headquarters | 541 South Alexandria Ave. | Los Angeles, California | Eastern Headquarters | 69 Newbury Street | Boston, Massachusetts

Centerstapled: 32 p, 2 line drawings, 15 photos. Gold paper wrap; title & side view of diamond on cover. 14.1 x 8.2 cm(5 1/2 x 3 1/4 in). Cut.JSL.

Issued in quantity to member firms for further presentation to customers; firm names are commonly found printed upon the cover. Gives general facts on diamond, color classification, governmental rulings, questions commonly asked, care of diamonds, as investments, adverts. Various issues & edits after the above.

100. -----1967 edit

Diamonds [title from wrap] [P 2: American Gem Society | 3142 Wilshire Boulevard | Los Angeles, California 90005...]

Centerstapled: 36 p, 13 photos, 9 drawings. Heavy, turquoise wrap, title with cut diamonds on cover; Pliny quote back cover [and commonly with address of retail firm as noted before]. 15.6 x 9 cm (6 1/8 x 3 1/2 in). Cut. JSL

101. -----1939 Jewelry And Jewelers... Condensed facts of general interest concerning gems, jewelry and silverware... Los Angeles: American Gem Society [1939] 32 p, copper-color wrap, 15.2 x 11.4 cm(6 x 4 1/2 in).

Contains a brief discussion of unscrupulous trade practises and the rules of the Federal Trade Commission, as well as data on gemstones.

102. -----1977, Birthday Book

The | Birthday | Book | [AGS monogram] | American Gem Society | All rights reserved. Reproduction or use of the whole | or any part of the contents without written permission | is prohibited. Copyright 1977 American Gem Society. | Library of Congress Catalog Card Number 77-83124

P 157: "Writing: Terry McFadden, Los Angeles, California."

8°: 157, [3 blank]p; front col photo + 76 others, all fullp. Black, plastic-coated paper over bds, col photos both covers; title in white on front cover & spine with AGS monograms. Grayish-tan endp, patterned with AGS monogram. 21.6 x 15.3 cm(8 1/2 x 6 in). Cut. Glossy paper. In cardbd slipcase covered with same paper as the endp. JSL.

Cont: blank p; publ data; AGS info; presentation p; front pl; tp; tab cont; fwd; text; ackn, credits; 3 blank p.

Beautifully-illustrated appointment book, the "text" consisting of ruled day-of-the week pages recto and facing color photo verso. Aside from its usefulness for appointment-keeping, the

photographs are of considerable merit and value for depicting so many important famous gems, jewels, etc, some never having been photographed before. Items: Hope diamond, Mrs Marjorie Post collection pieces, 21,000 carats Brazilian blue topaz faceted gem, gems from the Hixon Collection, Los Angeles County Museum, Imperial Russian Nuptial Crown, Patricia emerald crystal from Chivor, Bismarck sapphire of 98.6 carats, Logan sapphire of 433 carats, and various quartz family mineral carvings by Harold Van Pelt, one of the principal photographers. For a similar, later edition, see VAN PELT, H & E

AMERICAN MINERALOGIST QUARTZ OSC PL SYMP, see FRONDEL, C, et al

103. AMERICAN PROSPECTING AND MINING COMPANY Reports upon the property. New York, 1899, 40 p, 27 cm. General features of Macon Co, NC; geology, veins, mining developments, reports by W E Hidden and C Barrington Brown on beryl & ruby deposits. Not seen.

104. AMERICAN SUNDAY-SCHOOL UNION

Mineral Riches | Of The | Earth. | [rule] | Carefully Compiled For The American Sunday-School | Union, And Profusely Illustrated. | [rule] | Philadelphia: | American Sunday-School Union, | 1122 Chestnut Street. | [rule] | New York: 5999 Broadway. [nd, copyright 1861]

12° 304 p, wood engrav front with tiss gd + 11 other fullp pls tip-ins; 20 text figs. Embossed, stamped brown cloth, gilt spine title & orns; yellow endp. 15.1 x 9.6 cm(6 x 3 3/4 in). Cut. JSL

Cont: blank f + pl; tp; publ data; pref; tab cont; 11 chs.

A series of talks by a Mr Goodman who had a "large family of sons and daughters," and chose this method of instructing them in the mineral resources of the Earth, ie, salt, metals, coal & fuels, clay & slate, flint & sand, gravel, chalk, various stones, lavas, gemstones (ch 10, p 246-75), and fossils. Major and minor gemstones are treated in simple, easily understood prose; there is a discussion of the Koh-I-Noor diamond with three drawings of same.

105. AMIET, PIERRE

Pierre Amiet | Docteur ès-Lettres | Chargé de Recherches | Au Centre National de la Recherche Scientifique | Conservateur des Musées de Chambery | La Glyptique | Mesopotamienne | Archaïque | Editions Du Centre National De La Recherche Scientifique | 15, quai Anatole-France - Paris (VII°) | 1961

8°: [2 blank], [6], 454, [2]p; glossy photo pls bound-in + 113 line-drawing pls, the latter integral with text; all pls includ in pag (over 1500 line drawings). Unfin maroon cloth, white title on cover & spine; pale gray ribbed endp. 31.4 x 24.1 cm(12 3/8 x 9 1/2 in). Cut. Line drawing pls paper slightly thicker. 70 fr. JSL.

Cont: blank f; 1/2tp; tp; dedic; press data; general introd; text in 2 parts(9 & 10 chs); concl; abbrev (biblio p 195-8, ca 260 entries); figs index; alphabet index; tab cont; Plate A; pls sect.; print data.

Exhaustive work on Mesopotamian archaic cylinder seals, treating stylistic evolution of the engraving art and with discussions of origins and subsequent progress, then(part 2) iconography showing diversity of objects illustrated. Aside from a single photographic plate, all others depict line drawings and sketches of seals and the representations carved threupon, mostly copied from previous works, the latter acknowledged opposite each plate.

106. -----1963 La Glyptique Syrienne Archaïque, notes sur la diffusion de la Civilisation Mésopotamienne en Syrie du Nord. Paris: 1963, 27 p, 32 ills; Not seen: Thomas Heneage, London Cat 2, 1981, Suppl, p [3], 167.

107. -----1972 Glyptique Susienne des origines à l'époque des Perse Achéménides. Cachets, sceaux-cylindres et empreintes antiques découverts à Suse de 1913 à 1967, I-II. *Mémoires de la Délégation Archéologique en Iran, Mission de Susiane,* XLIII, Paris, 1972, 315 p, 196 pls, 2 vols. Not seen.

108. AMIET, PIERRE; ÖZGÜÇ, NIMET & BOARDMAN, JOHN

Ancient Art | in Seals | Essays by Pierre Amiet, Nimet Özgüç | and John Boardman | Edited and Introduced by Edith Porada | [photo of seal impress] | Princeton University Press | Princeton, New Jersey

[1980; entire title encl in double-rule frame]

"The Franklin Jasper Walls Lectures... fourth series...and the first on an archaeological subject"(p [2]).

8°: [2 blank], xix, [1 blank], 131, [1 blank], [1], [3 blank]p; curiously, a blank f appears betw p [34] & [35] and is not counted in pag; 123 photos of seal & gem impressions, 2 text maps. Ivory, unfin cloth spine,gilt; pale brown mottled paper over bds. Dj with title in terra cotta panel on cover; flap resume; adverts. 23.4 x 15.4 cm(9 1/4 x 6 in). Cut. LC 79-19462; ISBN 0-691-03951.8. Ca $21.00. JSL.

Cont: blank f; l/2tp; lecture series; tp; publ data; tab cont; ackn; ill list; blank p; text; index; blank p; publ. data; [3] blank p.

Pierre Amiet's text translated by Edith Porada who also prepared the legends for this paper; Nimet Özgüç' text translated by Machteld J Mellink. Begins with a large and important introduction by Porada on ancient seals generally, with a bibliography of 94 entries(p 21-8), followed by Amiet's essay on "The mythological repertory in cylinder seals of the Agade Period (c 2335-2155 BC)," p 35-50, and biblio p 48-50, 34 entries. Next is the essay by Özgüç, p 61-80, biblio p 79-80, 27 entries, on "Seal impressions from the palaces at Acemhöyük. The last essay, by Boardman, is entitled "Greek gem engravers, their subjects and style," p 106-16, biblio p 115-6, 42 entries. Illustrations are interspersed in the text. High quality materials and attractive design mark this work, with good photo reproductions.

AMINOFF, GREGORI(1883-1947)

Swedish mineralogist, crystallographer; stud sci Stockholm, grad Upsala U 1905; turned artist, however, not returning to sci until 1914; docent mineralogy/crystallography U Stockholm 1918; head Riksmuseum mineralogy dept 1923; publ num papers, described 11 new mineral species. Biogr L J Spencer, *Min Mag*, 28, 199, 1947, 177-8.

109. -----1926

Om Juveler | Och Ädla Stenar | Av | Gregori Aminoff | [publ monogram] | Stockholm | Albert Bonniers Förlag [1926]

"Bonniers Små Handböcker | Vetenskapliga Ämnen, 16"

8°: 138, [2 blank]p; 58 figs(mostly photos). Heavy, tan wrap, series title on cover in sepia & black; black lett. spine; other publ. books back cover. 18.6 x 12.3 cm(7 1/4 x 4 7/8 in). Cut. 2.75 kr. JSL.

Cont: l/2tp; tp; publ data; fwd; introd; text; tabs; tab cont; blank f.

Elementary gemology text: optical properties, physical properties, cutting, synthetics, carat weight, descriptions & properties individual gemstones; determinative tables arranged by color as first entry. A reprint in pale green wrap measures 18.4 x 12.2 cm(7 1/4 x 4 3/4 in).

110. AMIOT, JOSEPH(1718-1794) Essai sur les pierres sonores de Chine. *Mémoires concernant les l'Histoire les Sciences et les Arts des Chinois*, 6, p 255-74, 2 pls. The original in 16 vols, 4°, 1776-1814, of which Amiot was author of a large part. Laufer, *Jade*, 912, p 355, "this essay contains also valuable notes on Chinese jade in general." Not seen. *Biogr Univ*, 2, 47-9; Thomas, 1878; Yang 1067.

111. l'AMOUR DE l'ART

L'Amovr | De | L'Art | VIII - IX | ... | Numéro | Spécial | Sur | Le Bijou [Paris: Éditions Paul Dupont, 1947]

4°: [6]p + p 315-90 + [2]p; many photos(some in col); 3 col pl cut-outs mounted on textured gray paper(tip-ins) not includ in pag. Purple wrap, col lett on cover + silver, brilliant--cut gem. 31 x 24 cm (12 1/4 x 9 1/2 in). Cut. JSL.

Aside from several f of adverts, entire no devoted to jewelry & gemstones; 9 articles, 5 interviews with prominent jewelry firms; an article on jewelry-making techniques.

AMPT, G A, see DAVID, T W E

112. AMSTERDAM DIAMOND INDUSTRY *In- En Uitvoer, A Weekly of Commerce and Economics with its Monthly Supplement: Holland's Import & Export Trader*, no 30a, 1928, edgestapled: 68 p +[28]p adverts; ills; pale gray printed wrap, diamond crystal & cut diamond on cover. 31.2 x 23.7 cm(12 1/4 x 9 3/8 in). JSL.

Special no, containing 13 articles on various phases of the diamond industry of Amsterdam, ie, cutting, industrial diamonds, commerce, etc, with an article by A Asscher of the famous diamond-cutting firm on the history of the industry in Amsterdam and illustrated with photographs of the Cullinan being cut.

113. AMSTERDAM GEM CUTTING CO.

Introduction | To | Gems | Of | Brazil [Rio de Janeiro, n d, ca 1955]

Centerstapled oblong: [20]p, col ills, col wrap. 9.6 x 14.9 cm(3 3/4 x 5 7/8 in). Cut.

Issued free by a company of Rio de Janeiro jewelers; basic facts & descriptions of Brazilian gemstones; prices.

114. ANACKER, HANS Vorkommen und Entstehung der Achate im oberen Nahegebiet. *Zs Ges Edelsteink*, Idar-Oberstein, Nr 27-8, 19 p, ill. Not seen.

ANAWATI, G C, see SAID, HAKIM MOHAMMED

115. ANCHER, PETRUS [ANCHERSEN, JOHAN PEDER, 1700?-1765] Dissertatio de succino, Danica raf, cujus particular ima de nominibus et etymologia. Resp.Joh.Joach. Anchersen. Havniae[Copenhagen], 1737. 4°: 16p. Not seen, from Dryander 4, p 171; Gatterer 2, 157.

ANCIENT GEMS... EARL PERCY, see SPILSBURY, J

116. ANDERS, KJELL Die Insektenfauna des baltischen Bernsteins nebst damit verknupften zoogeographischen Problemen. *Lunds Univ Årsskrift*, nf, avd 2, bd 38, nr 4 & *Kungl Fysiografiska Sällskapets Handl* nf, bd 53, nr 4, Lund, 1942. 8°: 82, [2]p, 10 maps, 8 tabs. Pale blue wrap. 26.2 x 19.2 cm(10 1/4 x 7 5/8 in). Baltic amber insect fauna and relationships to similar faunas now living elsewhere; the wide separation into N and S Hemisphere groups of related species with no obvious connections between them requires an explanation.

117. ANDERSEN, OLAF(1884-1941) Art XXVIII- On aventurine feldspar... Plates I-III. *Amer J Sci*, ser 4, 40, 1915, 351-99, 3 photo pls, 13 text figs, Also issued sep; also in *Zs Krist*, 56, 1922, 553-80, 13 figs.

Studies orientation, nature & properties platelet inclusions in aventurine feldspars, some beautifully displaying this effect and used for gemstones, eg, Norway sunstone. Photo pls of inclusions, greatly magnified. Localities: albite, Media PA; oligoclase, nr Statesville, NC; labradorite, Labrador; perthite from Ontario, etc. See also his art on aventurine labradorite from California, *Amer Mineral*, 2, 1917, p 91, in which inclusions erroneously identified as copper.

ANDERSON, BASIL WILLIAM(1901-1984)

Eminent Brit gemologist & gemological innovator; grad King's Coll, London with chem honors but also took geol under W T Gordon; placed in charge newly-establ lab of the Diamond, Pearl and Precious Stones Section, London Chamber of Commerce in 1925; appt instructor gemology Chelsea Polytech, London, 1933, retiring in 1966, and from the laboratory 1972. Pioneered regular use of spectroscopy in gem identification; original works & innovations reviewed by M D S Lewis, *Gemm*, 14, 159, 1944, 13-6. Life & work, R K Mitchell, *J Gemm*, 19, 2, 1984, 188; A E Farn, ibid 194.

118. -----1937 Recent work on zircon, *Gemm*, 7, 73, 1937, 506, *passim,* to 9, 97, 1939, 1-5, ills.; 5 articles altogether.

GEM TESTING SERIES

119. -----1942

Gem Testing | for | Jewellers | by | B.W. Anderson B.Sc. F.G.A. | (In charge of the Precious Stone Laboratory of the London | Chamber of Commerce, Diamond, Pearl and Precious | Stone Section, and Lecturer in Gemmology at Chelsea | Polytechnic, London, S.W.) | London | Heywood & Company, Ltd. | The Watchmaker Jeweller and Silversmith
1942

8° 220 p (p 195-220 adverts); front photo + 43 figs, many tabs. Bright green unfin cloth, gilt title cover & spine. Col dj, resume, advert. 21.5 x 14 cm(8 1/2 x 5 1/2 in). Cut. 7/6 net. JSL.

Cont: 1/2tp; pls; tp; publ data & dedic; pref; tab cont.; 23 chs; append; index; adverts.

Modest beginning of a major series, yet even here displaying the unassuming authority and use of simple language that characterized all of Anderson's writing. The present work was based upon a series of articles that ran in numbers 1-24 of the *Gemmological News*, London, 1938-42. The text explains the principles underlying gem identification, the uses of gem-testing instruments and accessories, and the identification of gemstones using color as the first recognition feature. Organic gemstones and pearls receive separate treatment. The appendix contains useful ancillary information as well as tables of reference data, and including a bibliography of five works, p 186. The continued value of this work lies not only in the author's ability to express relatively complex ideas in simple terms understandable to most lay readers, but also in the organization of data such that the reader is led painlessly through the principles and then into the practise of identification based upon those principles. Rev E H Kraus, *Amer Min* 28, 1, 1943, 60-1; E Wigglesworth, *G & G*, 4, 4, 1942, 57-8.

120. -----1943, 2nd edit. Identical; "1943" on tp, not called 2nd edit at this time.

121. -----1944, 3rd edit. Identical; no date on tp but p [4] now lists previous "edits."

122. -----1947, 4th edit.

Gem Testing | ... [8 lines] ... | Heywood & Company, Ltd. | Drury House, Russell Street | London, W.C.2 [1947]

16°: 252 p (p 225-52 adverts); col photo front pl (tip-in); 53 figs; tabs. Dark blue cloth, gilt title cover & spine. 21.6 x 14 cm (8 1/2 x 5 1/2 in). 17/6. JSL.

Cont: 1/2tp; pl; tp; publ data & dedic; pref lst edit.; pref; tab cont; 22 chs; append; index; adverts.

First significant revision; adds new methods inmersion refractometry, use of Chelsea filter, more on SG fluids; new gemstone data; many minor changes and some rearrangement of text. Rev R J Holmes, *G & G*, 5, 11, 1947, 477-8; T G Jones, *Gemm.*, 16, 192, 1947, 203-5.

123. -----1948, 1st Amer edit

Gem Testing | ... [5 lines] ... | 1948 | [rule] ! New York: Emerson Books, Inc.

8°: x, 256 p; col front pl (tip-in); 53 figs, tabs. Black cloth, gilt title cover & spine. 21.3 x 14 cm(8 3/8 x 5 1/2 in). Cut. LC 48-6388; JSL.

Cont: pl; tp; publ data & dedic; pref to 1st edit.; pref to "Fourth Edition and the First American Edition;" tab cont.; ill list; 22 chs; appendix; index.

Text identical but entire work reset.

124. -----1951, 5th edit. Not seen.

125. -----1952(?), Ger edit

Praktische | Edelstein-Prüfung | von | B.W. Anderson, B.Sc. F.G.A. | Direktor des Edelstein-Laboratoriums | der Londoner Handelskammer | Abteilung Diamanten, Perlen und Edelsteine; | Lektor der Edelsteinkunde | am Chelsea-Polytechnikum, London | Rühle-Diebener-Verlag KG. Stuttgart

8°: 262 [2 advert]p; col front pl (tip-in); 4 tip-in col pls with lett tiss gds; 64 figs; 17 tabs. Bright blue cloth, gilt cover & spine title. Col dj ruby & microscope on front; resume. 20.5 x 14.5 cm (8 1/8 x 5 3/4 in), Cut. DM 24.90. JSL.

Cont: 1/2tp; pl; tp; publ data; tab cont; fwd by transl. Dr F W Eppler; 22 chs; append; biblio (p 250, 14 entries); index;advert.

Eppler(p [7]) states: This book... is by far the best textbook for the practical investigation and identification of gemstones." A straightforward translation; the 4 color plates show paintings of cut gemstones, faceted & cabochon, identified by printed tissue overlays; they were first used by Eppler in his 2nd edit of *Edelsteine und Schmucksteine*, 1934, and later used by Kraus & Slawson, *Gems and Gem Materials*, 3rd edit, 1939. Although not signed, the splendid watercolor renditions were from the hand of Idar-Oberstein artist W Wild. Rev E H Kraus, *Amer Min*, 41, 5-6, 1956, 531.

126. -----1958, 6th edit.

Gem Testing |... [6 lines]. .. | London | Heywood & Company Ltd | 1958

16°: 334, [2 blank]p (p 325-34 adverts); tip-in col front pl; 93 figs; tabs. Dark blue cloth, gilt spine title. 21.5 x 13.9 cm (8 1.2 x 5 1/2 in). Cut. 42s. JSL.

Cont: 1/2tp; pl; tp; publ data & dedic; extracts from prev edits; pref to 6th edit; tab cont; 25 chs; append (includ biblio p 311-2, 15 entries);suppliers; index; advert.

Revised & reset; adds new gemstones & synthetics; new methods immersion photography; crossed-filter fluorescence tests; new ch on fluorescence. Rev E Bruton, *Gemm*, 28, 330, 1959, 10-11; *J Gemm* 7, 1, 1959, 17.

127. -----1959, 6th edit, American, New York: Emerson Books, 1959, LC 59-10399. Not seen.

128. -----1964, 7th edit

Gem Testing | ... [6 lines] ... | Seventh Edition | A Heywood Book | Temple Press Books Ltd | London 1964

8°: 383, [1 blank]p (p 379-83 adverts); col front pl tip-in; 123 figs; tabs. Dark green cloth, gilt title cover & spine. Red dj, photo of immersed gems on cover, resume, advert. 21.5 x 14.2 cm(8 1/2 x 5 5/8 in). Cut. 60/- net. JSL.

Cont: 1/2tp; pl; tp; publ data; dedic; extracts from previous prefs; pref this edit;tab cont; introd; 26 chs; append; index; advert; blank p.

Larger book, using heavier, higher gloss paper; considerable expansion subject matter. Entirely reset. New ch on collecting, housing, storing gemstones. Ch on zircon rewritten. Rev R Webster, *J Gemm* 9, 9, 1965, 304-5; *G & G* 12, 1, 1966, 29.

129. -----1971, 8th edit

Gem Testing | B.W. Anderson, B.Sc. F.G.A. | Director of the Precious Stone Laboratory of the | London Chamber of Commerce | Eighth Edition | London Butterworths [1971]

8°: [13], [1 blank], 384, [2 blank]p; front col pl tip-in(cut gems; captions on reverse of leaf); 6 col photos on 4 bound-in pls; 129 figs, num tabs. Black leatherette, gilt title spine. Col dj,

photo fluorescent gems on cover, resume, vita, advert. 21.5 x 13.8 cm (8 1/2 x 5 1/2 in). Cut. £7.00 net. ISBN 0408 70127 7. JSL.

Cont: 1/2tp; pl; tp; publ data; dedic; tab cont; prefs.; how to use the book; 26 chs; append; suppliers; index; blank f.

Completely revised; adds new material on direct measurement of refract index and use of minimum deviation method; new synthetics; laboratory crystal growth; fluorescence in diamond, etc. Frontispiece pl of col gems in Geological Mus, London; other col pls gathered together nr center of book show fluorescence of diamond and inclusions in gems. Handsomely produced. Rev R Webster, *J Gemm* 12, 8, 1971, 361-3; *Austral Gemm*, 11, 4, 1971, 22-3; *G & G* 13, 10, 1971, 328-9.

130. -----1971, Amer edit

Gem Testing |...[3 lines]...| Van Nostrand Reinhold Company | New York Cincinnati Toronto London Melbourne [1971]

Identical, except for publ data. JSL.

131. -----1975, French edit

Identification | Des | Pierres Précieuses | par | B.W.Anderson, B.Sc., F.G.A. | Fondateur et Premier Directeur du | Labratoire des Pierres Précieuses de la | Chambre de Commerce de Londres | [dot] | Première édition française | Traduction et adaptation | d'après la huitième édition anglaise | par C.A. Schiffmann | Membre et instructeur scientifique de la | Société Suisse de Gemmologie | [dot] | Préface de | Monsieur le Professeur Jean Wyart | Membre de l'Institut de France | [dot] | Editions Hugo Buchser S.A., Genève 1975

8°: XXV(first f blank), [1 blank], 422, [2], [2 blank]p; 176 small col photos on 6 bound-in pls; 135 figs; num tabs. Dark maroon leather-textured plastic-coated paper over bds, gilt title on cover & spine. Col dj, photo of inclusions & brilliant gem on cover, resume, vitas. 20.8 x 14.8 cm(8 1/4 x 5 7/8 in). Cut. SFr 120. JSL.

Cont: blank f; 1/2tp; publ data; tp; publ data; tab cont; ill list; tabs list; ackn; Wyart pref; prefs to Engl edits; introd; 26 chs; annexes; biblio (p 402-4, 27 annot entries); useful addresses; index; erratum; print data; blank f. A loose errata f also supplied.

Following comments from review by J R H Chisholm. *J Gemm* 15, 3, 1976, 149. The main changes are description Dialdex refractometer, new synthetic materials, original color plates discarded and new ones adopted with many more individual stones in cut form arranged according to color, plus a plate depicting a miscellany of organic gem materials and some other mineral gemstones. "Mr Schiffmann has done his work well. This book will be an invaluable aid... [it] will bridge the gap between the 8th edition... and the eagerly awaited 9th edition." C A Schiffman, F G A, G G, was appointed head of the Gübelin Gemmological Laboratory in Switzerland in 1966.

132. -----1976, Spanish edit

gemas | Descripcion E Identificacion | B.W.Anderson, B.SC. F.G.A. | ...[2 lines]... | Versión española por el | Dr. Jose Maria Bosch Figueroa, Profesor del C.S.I.C. | y de la Escuela de Gemología de la Universidad de Barcelona | Entasa. Publicaciones Técnicas.-Madrid. [1976]

8°: XVI, 470, [1], [1 blank]p (first 2 pp of prelims blank); 6 col photos on one side of 4 bound-in f(not includ in pag); 139 text figs, many tabs. Maroon, crushed-leather type paper over bds, gilt spine title; col dj, flap biogr, resume. 21.5 x 15.5 cm(8 1/2 x 6 1/8 in). Cut. ISBN 84-7177-003-2; Depósito legal: M-29097-1976. JSL.

Cont: blank f; 1/2tp; pl; tp; publ data; fwd; pref to 8th Engl edit; pref to this edit; tab cont; introd; 26 chs; 6 append; biblio(p 453-6, books & journals, numerous errors); list of gemological instruments; index; errata; blank p.

Straightforward translation.

133. -----1979, Ital 8th edit. Gemme al microscopio. Turin: Boringhiere, 1979. Not seen: rev M O'Donoghue, *J Gemm* 17, 3, 1980, 196 "title notwithstanding, this is an enlarged translation of the eighth edition."

134. -----1980, 9th edit, London & Boston

Gem Testing | B.W. Anderson, B.Sc., F.G.A., F.K.C. | Formerly Director of the Gem Testing Laboratory of the | London Chamber of Commerce | Butterworths | London Boston | Sydney - Wellington - Durban - Toronto [1980]

16°: [14], 434 p; tip-in front col pl; 12 col photos & 2 line drawings on 6 glossy f bound-in; 143 figs. Black cloth, silver spine title. Very pale gray endp. Black d j, col photo cover, resume, vita, price. 21.5 x 13.7 cm(8 1/2 x 5 3/8 in). Cut. LC 79-40577; ISBN 0-408-00440-1. £12.00; U.S.A. $27.00. JSL.

Cont: 1/2tp; col pl; tp; publ data; dedic; prefs; tab cont; introd; 26 chs; append; index.

New material on optical properties, new refractometer and reflectometers, gemstones, synthetic and natural, many small changes throughout. The text illustrations now blurred and blackened. Rev. R K Mitchell, *J Gemm* 17, 3, 1980, 193-5; W W Hanneman, *R & M*, 56, 2, 1981, 77.

135. -----1983, Russian edit. Opredelenie dragotsennykh kamney. Moskva: Mir,1983, 458 p. Not seen.

END OF GEM TESTING SERIES

136. -----1976 Gemstones for Everyman. London: Faber And Faber Ltd, 1976. 8° 368 p. £15.00. Not seen.

137. -----1976, Amer edit

Gemstones For | Everyman | [orn rule] | by | B.W.Anderson | [publ monogram | Van Nostrand Reinhold Company | New York Cincinnati Toronto London Melbourne [1976]

8°: 368 p (first f blank); 17 col photos on 8 bound-in glossy f with 12 line drawing keys to gems on versos of some leaves; 24 photos on 8 bound-in glossy f; 29 figs. Dark brownish-maroon cloth, gilt spine title. Col dj, gem pebbles cover photo, rough & cut gems photo back cover, resume, other bks publ. 21.6 x 13.7 cm(8 1/2 x 5 3/8 in). Cut. $25.00. LC 75-29369; ISBN 0-442-20360-8. JSL.

Cont: blank f; 1/2tp; other bk of author; tp; publ data; dedic; tab cont; ill list; ackn; 25 chs; glossary; biblio (p 341-2, 8 entries annot); gemstone property tab; nomenclature tab; conversion factors; index.

An entirely new writing venture for Anderson, the aim being to present to the general public a broad portrait of the world of gemstones in their scientific and natural history aspects, omitting curious lore, anecdotes of famous gems, and the like. In effect, it is a course in gemology but leavened with stories of the

author's experiences and presented in simpler language and with less attention to theory than is found in a conventional gemology textbook. Compared to an ordinary "popular" work on gems, it is far more technical however, and perhaps too technical in many places to be fully intelligible to "everyman" The material is presented conventionally, that is, initial chapters define gemstones, discuss nomenclature, and also treat sources of gemstones, their recovery, lapidary work, crystallography, optical properties, examination with simple instruments, and physical properties. Succeeding chapters describe numerous major and minor species, including organics and manufactured stones. Rev R K Mitchell, *J Gemm* 15, 2, 1976, 89-91, "crammed with extremely valuable information and perhaps even more useful to the serious gemmologist than to the layman." Rev *G & G* 16, 1, 1978, 29 also rev M O'Donoghue, *Gems* 8, 3, 1976, 55.

ANDERSON, B W, see WEBSTER, R, 1983

138. ANDERSON, B W & PAYNE, C J The spectroscope and its applications to gemmology. *Gemm* 22, 266, 1953, 153-58, ills, *passim* to vol 26, 306, 1957, p, 13-4(index); 41 articles altogether, each about 5p. Taken together a most impressive contribution but unfortunately, never republished in collected form.

139. ANDERSON, ESKIL

Asbestos And Jade Occurrences | In The | Kobuk River Region, Alaska | By | Eskil Anderson | Juneau, Alaska | May, 1945 | (Revised to December, 1945)

At head of title: "Territory of Alaska, Department of Mines... Pamphlet No.3-R." Not seen. GS 50-33.

140. -----1964, reprint. At foot of above title, "Facsimile Reproduction 1964, The Shorey Book Store, 815 Third Avenue, Seattle, Washington 98104."P [2]:"Third Edition of Facsimile Reprint, Limited To 150 copies, July 1973, ISBN #0-8466-0037-4."

Centerstapled: 26, [6] p; 4 sketch maps. Stiff, cream paper wrap, green lett & drawing on cover. 12.2 x 17.3 cm(8 3/8 x 6 3/4 in). Cut. $2.00. The last [6] p advertise other Shorey reprints. JSL.

Personal examinations in summers of 1943-5 of the deposits of asbestos and nephrite jade, Kobuk River, N W Alaska. Provides history of previous explorations, and descriptions of deposits along Dahl Creek, Shungnak River, Cosmos Creek, Wesley Creek, Kogoluktak River, and Jade Mountain. First modern paper on these important deposits.

ANDERSON, FRANK J

Hon curator rare books and mss New York Botanical Garden; writer on botanical subjects, eg, *Illustrated Treasury of Plants*, etc.

141. -----1981

Riches of | the Earth | Ornamental, Precious, | and Semi-precious Stones | [orn rule] | by | Frank J. Anderson | special photographs by | George C. Roos [foregoing enclosed in double-rule frame] | [logo] | The Rutledge Press | New York, New York [1981]

8°: 223, [1]p; 69 col photos; 78 b&w photos. Black cloth-type paper over bds; silver title in frame on cover;silver spine title; dull grayish-brown endp. Col dj, 8 col photos on cover around title; flap resume, vita. 26.2 x 19.1 cm(10 1/4 x 7 1/2 in). Cut. $24.95. LC 81-10567; ISBN 0-8317-7739-7. JSL.

Cont: 1/2tp (with col photo); dedic & photo captions; tp; publ data(with 2 col photos); tab cont (with 2 col photos); introd; 9 chs; glossary; biblio (p 211-12, 92 entries); indexes; ackn.

Despite the title, a generally well-written work primarily on the human aspects of gemstones that embodies a great deal of information and lore painstakingly assembled from a myriad of sources. Topics: ancient uses of ornamental and architectural stones continuing into the present, with famous persons introduced along the way, and an entire chapter on royal collectors and their collections, curious & religious lore, stone in technology, and lastly, an incongruent chapter, too short to be of value, on field collecting for stones and minerals. On the whole, and despite the author's lack of expertise in the subject area of this book, the scientific information is presented accurately with only occasional uncertain or misleading statements, eg in the glossary, which is not of much help. To some extent this may be attributable to the lack of certain major authoritative works in his bibliography, from which one may assume that they were not consulted, eg, of the 92 works only three are on mineralogy/gemology, and not the best at that. Many illustrations of gem materials are not of very good quality, and some, taken from older literature, are often unidentified as to source or not germane.

142. ANDERSON GALLERIES

Catalogue | Of | Old Manchu Jewelry | Carved Stones, Jade, Snuff | Bottles, Enamels And | Fine Furniture | Gathered In China By | The Well-Known Connoisseur | Frederick Moore | Of New York And Peking [New York, 1917] [F Moore, 1877-]

8°: [blank double f] + 70 p + [blank double f]; 11 photo pls tip-ins. Heavy pale olive-green wrap;cover title with Chinese style monogram in dull red-brown("FM"). Inward-fold flaps over the double leaves. 25 x 16.9 cm(9 7/8 x 6 3/4 in). Cut. GS 34-267(Kunz Coll).

Virtually all of the first 382 lots up to p 61 are objects made from gemstones or are jewelry.

ANDERTON, RUSS

Former Office of Strategic Services, US Army officer in World War II(Far East area?); adventurer, gem merchant, and miner.

143. -----1953

Tic-Polonga | By Russ Anderton | 1953 | Doubleday & Company, Inc., Garden City, New York

Tic-polonga = highly poisonous snake of Ceylon.

16°: 254,[2 blank]p. Greenish-tan cloth, green lett & cut gem on spine. Col dj, resume, portr of A back cover. 20 x 13.3 cm(7 7/8 x 5 1/4 in). Cut. $3.00. LC 53-5969. JSL.

Cont: 1/2tp; tp; publ data; dedic; pref; text tp; text; blank f.

Firsthand account, written in highly interesting style, about dealing in gems in Ceylon and rich in local color and in descriptions of people, places, and trading adventures. However, the major worth of this book is its account of Anderton's experiences when he was called in to manage the Chivor emerald mine in Colombia. It is this portion that makes this book historically important and indispensable to any one writing about Colombian emerald mines in the future. While Anderton's writing style is

designed to "sell" the book, it nevertheless contains many facts about the Chivor mine, its management problems, mining methods, recovery and treatment of emeralds, banditry, and other aspects which are of interest to the general gemological reader as well as historian. Compared to Rainier's work on the same deposit, *Green Fire,* it is stylistically alike but much scarcer.

144. -----1954, London edit

Tic-Polonga | By | Russ Anderton | [publ logo] | London | Museum Press Limited [26 Old Brompton Road, S.W.7, 1954]

8°: 224 p. Black, unfin cloth; white title on spine with yellow snake. Col dj; resume, other publ bks. 21.6 x 13.6 cm(8 1/2 x 5 3/8 in). Cut. Te stained yellow. 12s 6d net. JSL.

Cont: 1/2tp; tp; publ data; text tp; pref; text.

Nearly identical; entirely reset in British English.

145. -----1955(?), London

Tic-Polonga | By | Russ Anderton | The Quality Book Club | 121 Charing Cross Road | London W.C.2 [nd, ca 1955]

8°: 224 p; tan, cloth-type paper over bds; gilt title with scrolls in green spine panel. Col dj, resume, other publ bks. 9.8 x 13 cm(7 3/4 x 5 1/8 in). Te stained green. Cut. 3s 6d. JSL.

Identical to foregoing.

146. -----1954, New York paperback

Tic-Polonga | By Russ Anderton | Permabooks, A Division Of | Doubleday & Company, Inc., Garden City, New York [1954]

Cementb: 193 p + [6] advert p. Stiff, col wrap, title + gem-buying scene on cover. 18.1 x 10.6 cm(7 1/8 x 4 1/8 in). Cut. Ae stained red. $.25. JSL. Cont: review; tp; publ data & history; dedic; pref; text; advert; blank p. Identical to first edit but entirely reset.

147. ANDÉS, LOUIS EDGAR

Die Verarbeitung | des | Hornes, Elfenbeins, Schildpatts, | der | Knochen und der Perlmutter. | Abstammung und Eigenschaften dieser Rohstoffe, Ihre Zubereitung, | Färbung und Verwendung in der Drechslerei, Kamm= und Knopf= | Fabrikation, sowie in anderen Gewerben. | [rule] | Ein Handbuch | für Horns und Bein=Arbeiter, Kammacher, Knopf=Fabrikanten, | Drechsler, Spielwaaren=Fabrikanten etc.etc. | Von | Louis Edgar Andés. | [rule] | Mit 32 Abbildungen. | [publ monogram] | Wien. Pest. Leipzig | A.Hartleben's Verlag. | 1885. | Alle Rechte vorbehalten.

In the series "Chemisch-Technische Bibliothek."

8°: VIII, 212p; 32 text figs. Dark purplish-brown cloth, elaborately blind-stamped cover, gilt title & series title(blind); gilt spine title; blind orn frame back cover; tan endp. 17.7 x 12.6 cm (7 x 5 in). Cut. Edges marbled. GS Kunz Coll.

Cont: tp; print data; fwd; tab cont; introd; text; index; 2 p adverts.

Eminently practical treatise on the working of horn, ivory, tortoise-shell and mother-of-pearl into useful and ornamental objects, especially by use of the lathe. Describes materials, sources, qualities, colors, sizes, etc, then how they may be artificially colored and what dyestuffs are to be used, sawing, abrasive & polishing processes and agents, with specifics given for each material.

148. -----date?, 2nd edit; not seen

149. -----1925, 3rd edit. III. Auflage. VIII, 280 p., 46 ills. Wien und Leipzig, 1925. Chem-Techn Bibliothek Bd 117. Not seen: Ref: G Ranson.

150. ANDRADE, ALFRED DE

The Diamond And Gold | Industries, | Prospecting, Mining and other | Matters, | With A Descriptive Sketch Of | The Upper Massaruni River | In | British Guiana, | By | Alfred De Andrade. | [orn.rule] | All Rights Reserved. | [rule] | Price: 15 cents. | [rule] | Georgetown, Demerara: | G.A.Packwood, Printer, 12, Longden Street. | [dash] | 1902.

8°: 27, [1 blank], [6 advert.]p. Tan wrap, cover title. 20.2 x 12.5 cm(8 x 4 7/8 in). Cut. USGS Kunz Coll, GS 34-527.

Cont: tp; pref; tab cont; text in 2 parts; blank p; adverts.

Highly interesting practical guide to alluvial diamond/gold mining along the Mazaruni River & adjacent areas: methods of travel & camping, suggestions and advice on prospecting & mining, Very rare.

ANDRADE, CARLOS F DE, see FREIRE DE ANDRADE, CARLOS

151. ANDRÉ, AUGUSTE

Dictionnaire Pratique | Des | Pierres Précieuses | Et D'Ornementation | par | Auguste André | Chimiste minéralogiste | suivi d'une | Note Sur Les | Pierres Synthetiques | par M.Deribere [No place or date, ca 1955]

Cover: "Editeur Publications Minieres Et Metallurgiques 86, Rue Cardinet - Paris(17e)," and from inside front cover "Ce dictionnaire... avait fait l'objet d'une série d'articles publiées par ... André dans les numéros de mars à octobre 1955 de "L'Echo des mines et de la Métallurgie."

Cementb: blank f + 60 p + blank f; heavy white paper wrap, cover title. 24.1 x 15.8 cm(9 1/2 x 6 1/4 in). Cut. Fr 515. JSL. Cont: blank f; tp; tab cont; introd; 7 chs; note by Deribere(with biblio p 60, 13 entries); blank f.

Lists gemstones alphabetically by species & varieties, giving synonyms, properties, imitations, followed by tables arranged according to color, hardness, density and refract index, with a summary table. Deribere's note on synthetics lists & described them under the natural counterpart names and furnish a few criteria for distinction. Rev by E R V, *Colonial Geology And Mineral Resources*, London, 6, 4, 1957, 480.

ANDRÉE, KARL ERICH (1880-1931)

Ger geologist, paleontologist; stud paleont Techn Hochschule Hannover 1898-1904; prof geol & paleont U Königsberg 1920-45. Maintained lifelong interest in amber, publ ca 300 articles in periodical lit as well as serving as editor, *Bernstein-Forschungen*, which see (obit H 3, 1932, p 1).

152. -----1924 Ostpreussens Bernstein und seine Bedeutung, hauptsächlich für Wissenschaft, Kunstgewerbe und Industrie. *Ostdeutscher Naturwart*, 1924, 3, 183-9; 1925, 3, 120-34, 29 ills. Not seen. A reviews his own work in *Bernstein-Forsch,* 1, 1929, 141.

Succinct account of East Prussian amber & importance in science, arts, and industry, with refs to important literature, its

early recognition and use by primitive peoples, controversies over its nature and origin, deposits & mining methods; rare,interesting photos of Anna mine opencut and underground workings. A few production statistics, also a biblio. of 24 entries.

153. -----1927 Vom "Ostpreussischen Gold," dem Bernstein im Allgemeinen und von der Kleb'schen Bernsteinsammlung und ihrere Bedeutung für Königsberg und die Bernsteinforschung im Besonderen. *Jahresbericht d Königsberger Universitätsbundes f 1926/27*, Königsberg i Pr 1927, 19 p, 5 ills Not seen; rev by A, *Bernst-Forsch*, 1, 1929, 141-2.

Short survey of importance of Baltic amber, especially the importance of the work of Richard Klebs(1850-1911), which see, and the rich and varied collection of amber which he assembled and which later was acquired by the Albertus-Universität in Königsberg. Among the illustrations are specimens containing a flea, named after Klebs, a fan-palm impression, and a float made from amber to test the alcohol content of beer!

154. -----1929 Bernsteinforschung einst und jetst. *Bernst-Forsch*, 1, 1929, p I-XXXII. JSL. Introd to first issue this journal(which see); reviews studies past & present: nature of amber, origin & geology of deposits, unique value of amber to science, early speculations on its nature, inclusions, esp insects, remarks on important collections, and citations of major works written on amber which provide a useful guide for study of early literature. A most valuable article.

155. -----1937 Der Bernstein und seine Bedeutung in Natur- und Geisteswissenschaften, Kunst und Kunstgewerbe, Technik, Industrie und Handel. Nebst einem kurzem Führer durch die Bernsteinsammlung der Albertus-Universität.Verlag Gräfe & Unzer, 1937. 8°: 219 p, 51 ills. 18.5 cm. Paper Mk 2.50; cloth Mk 3.50. Not seen; rev by A, *Bernst-Forsch*, 4, 1939, 79-80. JSL. GS 38-60.

Amber & its importance in natural & cultural sciences, art, applied art, technology, industry & commerce. First section: scientific aspects, the material & composition, origin, properties, raw amber forms, deposits, geol age & environment, life in the "amber period," inclusions, false inclusions, the Amber Forest, etc. Second section: cultural aspects, knowledge of amber in prehistoric and later periods; amber trade routes. Third section: recovery methods past & present, crown monopoly, working & uses of amber, the trade from the Teutonic Order to present. Fourth and last section: amber collections, amber studies, list of major writings, short guide through the Albertus-U coll.

156. -----1939 Steinzeitliche Bernstein-Anhänger mit Ritz-Zeichnungen von Nordlichtern. *Bernst-Forsch*, 4, 1939, 45-7, Pl 11. Stone-Age amber pendants with grooves supposedly representing the Northern Lights. JSL.

157. -----1939 Über neue Funde neolithischer Bernstein-artifakte Schwarzorter Stils an der Ostseeküste Kurlands und ihre Bedeutung für die Frage der Entstehung der schwarzorter Bernsteinlagerstätte. Ibid, 48-51, Pl 12(in part). New finds Neolithic amber artifacts in Schwarzort style along Baltic coast of Courland & significance in solving problem of origin of Schwarzort amber deposit. JSL.

158. -----1939 Über Inklusen im allgemeinen und über Bernsteininklusen und Bernsteininklusenfälschungen im besonderen. Ibid, 52-77, Pl 12(in part), 42 refs. JSL. Defines, discusses inclusions in general, eg, as those in gypsum, celestite, quartz, halite, other natural salts, ice, then goes on to those found in amber, pointing out the great value for scientific studies quite aside from curiosity or decorativevalue. Also discusses inclusion fakes, reviews the practise historically, and gives descriptions & photos of two newly-discovered examples containing frogs! Refs to literature esp valuable because several deal with fakes.

159. -----1951

Karl Andrée | Der Bernstein | Das Bernsteinland | Und Sein Leben | [Publ monogram] | Stuttgart 1951 | Kosmos · Gesellschaft Der Naturfreunde | Gesellschäftsstelle: Franckh'sche Verlagshandlung

"Kosmos Bändchen 192."

Cementb: 95, [1]p, 24 figs, 3 maps. Brownish-red wraps, yellow title on front; pale tan back with Kosmos logo. 19.8 x 12.8 cm(7 3/4 x 5 in). Cut. JSL. LC 52-43789.

Cont: tp; advert & publ data; introd; 3 chs; concl; biblio (6 entries); tab cont.

Amber, the ancient amber land & its life, all in popular style, abridged from the author's *Bernstein u seine Bedeutung* of 1937-(above) but covers all important aspects.

ANDRÉE, K, see BERNSTEIN-FORSCHUNGEN

ANDREENKO, E D, see SOLODOVA, Y P, et al

160. ANDREEV, VLADIMIR NIKOLAEVICH Ogranka dragotsennykh i poludragotsennykh kamney. Moscow & Leningrad, 1937, 93 p. Not seen.

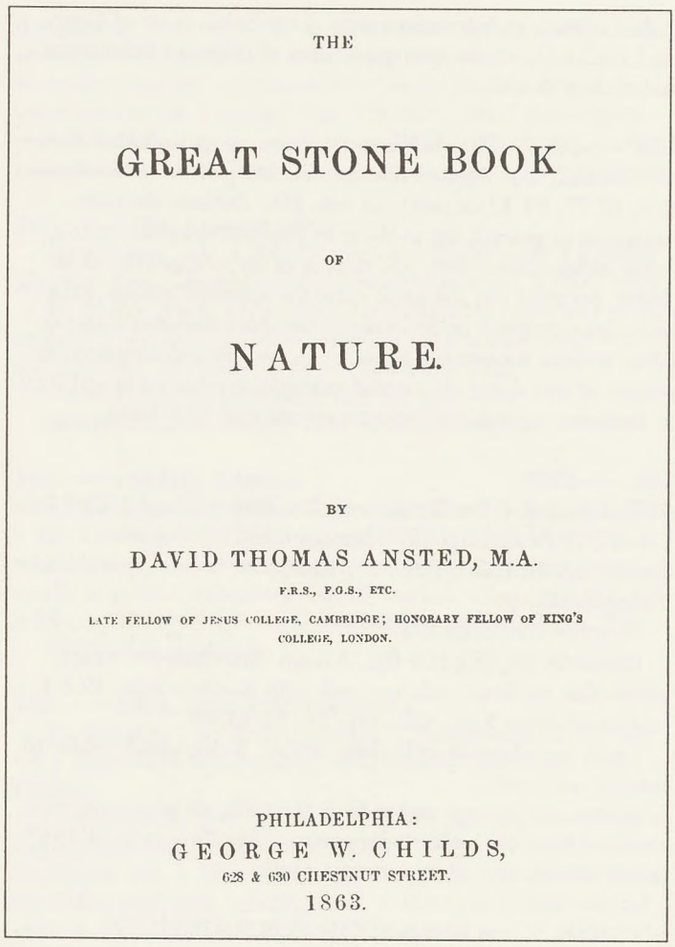
161. -----1957

V.N. Andreev | Ogranka Samotsvetov | Chast Pervaya | Ogranochnoe Syre | Pod redaktsiey professora | I.I. Shafranovskogo | [star] | Gosudarstvennoe Izdatelstvo Mestnoi | Promyshlennosti RSFR | Moskva - 1957 [in 2 parts]

Part 1. 8°: 159, [1 blank]p; 49 figs; 25 tabs. Thin bds covered with tan-orange paper, orange lett, decor in vertical black band; spine plain pale gray cloth. Pale gray endp. 22 x 14.3 cm(8 5/8 x 5 5/8 in). Cut. 6r 15k. Press run 2,000. LC 59-29743. JSL.

Cont: tp; publ data; introd; 11 chs; biblio (p 143-4, 47 entries, mainly in Russ); glossary(several 100's terms); tab cont; blank p; errata slip.

On gem cutting, principally of faceted gems as implied by use of "ogranka." Provides classification of stones, nomenclature, chem & phys properties; gemstone descriptions in three classes: (1) "hard & valuable" stones, (2) "stones of lesser value," (3) "inexpensive" stones. Also short sections on fakes & imitations, identification, etc. This first volume provides the scientific/-



THE

GREAT STONE BOOK

OF

NATURE.

BY

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PHILADELPHIA:

GEORGE W. CHILDS,

628 & 630 CHESTNUT STREET.

1863.

169A. Ansted's famous popular treatment of economic mineralogy with a chapter on gemstones

technological basis for the next volume which describes lapidary work. Both books shoddily made, cheap materials, poor letterpress, and with many illustrations borrowed without credit from non-Russian sources.

162. -----1958, part 2 of above

V.N. Andreev | Ogranka Samotsvetov | Chast Vtoraya | Moskva - 1958

8°: 200 p; 78 figs. (one fold); 23 tabs (one fold). Tab 2 consists of 8 p of facet-cutting styles placed at end of text forming p 188-95. Similar binding, pale gray paper with white, gray & red lett & decor. Maroon cloth spine. Pale gray endp. Same size. 7r 45k. 2,000 copies. JSL.

Cont: tp; publ data; pref; text in 3 parts, many chs each; Tab. 2 of cutting styles; biblio (p 196-8, 60 entries, largely in languages other than Russ); tab cont; errata slip.

Part (1): geometry of faceted gems, some remarks on cabochons; (2): calculation of correct angles for faceted gems of correct proportions; heavily stresses theoretical approach to problem of obtaining maximum brilliance by use of correct angles & proportions; uses mathematical proofs, however, like most mathematical "solutions" to this problem, the resulting angles & proportions differ but little from those used by practical lapidaries;(3) cutting and polishing processes. Illustrations taken mostly from non-Russian literature, eg, Table 2 facet styles are taken from G G Waite (H Howard, *Revised Lapidary Handbook*, which see). However, this volume contains a great deal of original research and valuable information although little of the theory would be of much value to the commercial cutter.

163. ANDREEV, V V

V.V. Andreev | Almazy | Rynok | Kapitalisticheskikh | Stran | Vneshtorgizdat | Moskva - 1958

8°: 148, [3], [1 blank]p; 8 photos, many tabs. Pale blue & white paper over bds; black & pale gray-purple lett; dark blue cloth spine. 22.2 x 14.6 cm(8 3/4 x 5 3/4 in). Cut. 5r 6Ok. Press run 2,300. JSL.

Cont: tp; introd; pref; 6 chs; biblio (p 148-9, 39 entries + 13 diamond-trade journals); tab cont; publ data; blank p. LC 58-39588.

Detailed analysis of structure & operation of the diamond selling industry in capitalistic countries as inferred from many data taken from books, government reports & magazine articles publ outside the USSR. Treats: diamond as a commodity, history of the industry, cartels, international organizations, fabricated diamond industry, market since close of WW II.

164. ANDREWS, ERNEST M

Georgia's | Fabulous | Treasure | Hoards | A Compendium for Rockhounds, | Prospectors and various seekers of | Gold, Silver, Diamonds, etc. | with known & historical locations. Com- | *Plete with Maps, Charts, etc.* [underline sic] | Ernest M. Andrews. [Hapeville, 1966]

Ornate pale gray floral bands above & below title.

8°: [1]f blank + [4]f + 106 p + [2 blank]f; front photo, 23 text photos, 28 maps, 19 figs. Col fold map of GA with localities, inserted loose. Dark red plasticized cloth, gilt lett orns cover & spine. Endpaper maps. Col dj, resume. 22.9 x 15.1 cm(9 x 6 in). Cut. $6.95. LC 66-23050. JSL.

Cont: blank f; 1/2 tp; front; tp; publ data; tab cont; ackn; 5 chs; 2 blank f.

Legendary treasures, with maps & instructions, compiled from accounts from colonial period to present. Also gives data on Indian signs, symbols, pictographs associated with hidden treasure, use of divining rod, metal locators. Ch 5 briefly describes some Georgia gemstones and gives 135 localities, by counties, p 85-106. A legend about a large & valuable diamond on p 53-5.

ANDREWS, G, see BLAKEMORE, K, 1966, 1967

ADRIANOV, V T, see DIBROV, V E, et al

165. ANGEL, FRANZ (1887-) Über synthetische Edelsteine und die Möglichkeit ihrer Untersuchung von den Natursteinen (Mit einer Farbentafel und 14 Figuren im Text). Graz: k.k. Handelsakademie, 1913. Separate: *Jahresberichte pro 1913/14 der k k Handelsakademie in Graz*, 29 p, ills; col pl, 23 cm. Not seen, from GS 13-746.

ANGELELLI, V, see AHLFELD, F, 1948

166. ANGOVE, JOHN In the Early Days: the Reminiscences of Pioneer Life on the South African Diamond Fields. Kimberley and Johannesburg: Handel House, 1910. Theal, p 9:

"A crown octavo illustrated volume of two hundred and thirteen pages." Southey, 1946 gives [viii], 213 p, ills. Not seen.

167. ANLEITUNG ZUR KENNTNISS DER EDELSTEINE

Anleitung | zur | Kenntniss | der Edelsteine und Perlen, | als Handbuch | für | Juweliere und Steinschneider. | [rule] |Nebst einer Beschreibung | des Sächsischen Kunstschatzes | oder | des sogenannten grünen Gewölbes | in Dresden. | [rule] | Mit einer Kupfertafel. | [orn. rule] | Halle, | J.C. Hendels Verlag. | 1816.

8°: XIV, 222p (2p index, the first p unnumb, the second misnumb "222"). $P1^8$, $A\text{-}O^8$, P; engrav pl after p XIV(this f may be conjugate with the first f of the first gathering as suggested by the color of the paper). 17 x 10 cm(6 3/4 x 3 7/8 in). Cropped. BMNH Libr.

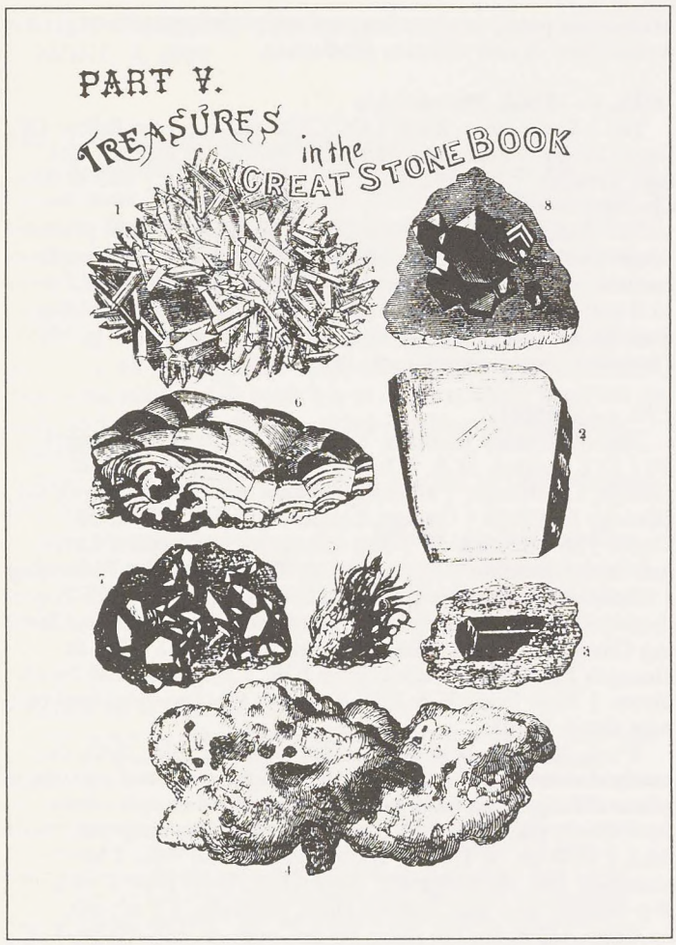
Cont: tp; introd; "precious stones of high rank and value," p XI-XIV; pl; text to p 196; blank p; text title to "Green Vaults" section & its text; addenda & errata; index.

A simplified presentation of information an gemstones, culled from many sources, and aimed at jewelers, lapidaries, and "dilettantes," with an introduction treating general properties of gemstones, variation in density, usefulness of the Nicholson specific gravity instrument(shown upon the pl), etc. Curiously, this is followed by several pages of text on the diamond, numbered with Roman numerals and then continuing into the text proper where the remainder receives Arabic numerals. There is a discussion of large and rare diamonds, including the Burgundy, 139 1/2 carats, claimed to have been cut by Louis de Berquen in 1475 for Duke Carl of Burgundy, also the Great Mogul, several diamonds originally described by Tavernier, the Regent, Sancy, and many others, some not very large, and ending with a discussion of Jeffries' rules for valuation of brilliants and remarks on the cost of cutting diamonds. The following part treats ruby, spinel, and garnet and stones similar in color, and the hyacinth (zircon), including a "leek green" type that appears to be an early mention of a metamict zircon. Large and rare rubies are described, again citing Tavernier but failing to clearly distinguish between ruby and ruby spinel. Other parts describe stones of lesser rank, from sapphire to very cheap ornamental stones as serpentine, marble, and petrified wood. A section is also included on pearls. The part describing the celebrated Green Vaults of Dresden provides a summary of contents in each of the eight rooms. While this book contains a great deal of varied and interesting information, it seems more the work of a skilled editor than that of an expert in gemology; possibly the publisher is the author. Rare.

168. ANSHELES, O M O prirode okruglykh form almaza. *Kristallografiya i Kristallokhimiya*, uchenye zapiski LGU, ser geol nauk, Leningrad Gos Univ, no 178, vyp 4, 1954, p 36-92. Not seen. On rounded crystal forms of diamond.

ANSTED, DAVID THOMAS (1814-1880)

Brit geologist; educ Cambridge U; succeeded John Phillips as prof geol King's Coll, London; edit *J and Proc of the Geol Soc London*; traveled extensively, served as a mining consultant; his many writings, a number in popular style, are prized for their keen observations on people & places as well as matters geological. Pogg 3, 34-5; obit *Geol Mag*, ns, 7, 1880, 336; Min Mag, 4, 1882, 80.



169A. Each part of Ansted's book was accompanied by a fine engraving on wood as shown here for the part containing his discussion of gemstones

169. -----1863

The | Great Stone Book | Of | Nature, | By | David Thomas Ansted, M.A. | F.R.S. F.G.S. Etc. | Late Fellow Of Jesus College, Cambridge: | Honorary Fellow Of King's College, London. | London and Cambridge: | Macmillan And Co. | 1863.

8°: xvii, 309 p + [1], 15, [1] p adverts. Front engrav pl, tiss gd, tip-in; also five double-leaves tipped-in serving as part title on one leaf, and with the part title and engrav vignette on the facing leaf; these not includ in pag; 5 text figs. Terra cotta red cloth, gold & black ruled frame on cover; blind-rule frame back cover; black rules & gold lett spine. Brown, dull-finish endp. 16.8 x 10.8 cm(6 5/8 x 4 1/4 in). Unopened at top; fe part open. 5s. LC 5-5374. JSL.

Cont: 1/2tp; publ monogram; tp; publ data; tab cont; ills explanations; introd ch title with a verse from Paradise Lost; text in 5 parts(each with double-leaf as noted above) altogether 18 chs; advert.

Charming and clever work presenting a broad view of geology, the products of the mineral kingdom, and notes on the exploitation of these resources. Part 5, entitled "Treasures Of The Great Stone Book," contains a chapter on gemstones, p 241-66, covering the principal gemstones, some ornamental

stones, also pearl, coral, amber, and with brief remarks on curious lore. A fine victorian production.

169A. -----1863, Philadelphia

The | Great stone Book | Of | Nature. |...| Late Fellow Of Jesus College, Cambridge; Honorary Fellow Of King's | College, London, | Philadelphia: | George W.Childs, | 628 & 630 Chestnut Street. | 1863.

12°: 335, [1 blank]p; same ill, but pls tip-in & front pl sans tissue. Dull-green, overall-embossed cloth, blind medallions & borders on covers; gilt spine; dk orangey-yellow endp. 18.7 x 11.3 cm(7 3/8 x 4 1/2 in). Cut. Cont: blank f supplied; 1/2tp; front pl; tp; print data; tab cont; ill explan; text; blank p; blank f supplied. Paged continuously in arabic numerals.

170. -----1880(?)

Natural History Rambles. | [rule] | In Search Of Minerals. | By | D.T. Ansted, M.A. F.R.S. | Formerly Fellow Of Jesus College, Cambridge, | Honorary Fellow And Late Professor Of Geology In King's | College, London. | [rule] | Published Under The Direction Of | The Committee Of General Literature And Education | Appointed By The Society For Promoting | Christian Knowledge. | [rule] | London: | Society For Promoting Christian Knowledge, | Northumberland Avenue, Charing Cross, W.C. | 43, Queen Victoria Street, E.C. | 26, St. George's Place, Hyde Park Corner S.W. | Brighton: 135 North Street. | New York: E & J, E. Young & Co. [no date, final text note dated 1880]

8°: vi, 282 p + [4]p adverts; 39 woodcuts. Blue cloth, ornately decorated with black lett, field scene, small rect vignette of placer mining scene on cover; decor extends over spine onto back cover; gilt spine title, black rules. Pale gray endp patterned. 16.5 x 10.9 cm (6 1/2 x 4 1/4 in). Cut. 2s. 6d. JSL. I have examined two ident reprints: green cloth, floral pattern endp + 8 p adverts; also dark maroon cloth, pattendp, 8 p adverts.

Cont: 1/2tp; tp; tab cont; 10 chs; note on artificial prod of diamond; index; advert.

About half devoted to gemstones & orn stones; interesting & accurate, with emphasis on cultural rather than scient aspects. General remarks on gemstones in Ch 2, followed by a good section on diamond and another on ruby. Ch 3 treats remainder of important gemstones while Ch 4 is devoted entirely to quartz and its crystalline & cryptocrystalline varieties. Ch 5 on "softer and valuable" species, eg, peridot, idocrase, turquoise, lapis, etc. Ch 6 on organics, ie, jet, amber, pearl, coral. An unusual and valuable feature of these essays is the insertion, where appropriate, of verses from Marbod's poem on gemstones, using the C W King transl (Antique Gems, 1860, which see). A short note at the end of the text, mistakenly announces the successful synthesis of diamond but gives no name, dates, or details.

171. -----1895, reprint

Natural History Rambles | ... Brighton: 129, North Street. | New York: E. & J.B. Young & Co. | 1895

Smooth red cloth, black lett; rect scene vignette on cover; gold & black lett spine; floral endp. Identical; name of printer now on reverse of title. JSL.

172. ANTEL, FRANCIS P.

Ransom | & Gems | the DeLong Ruby Story | by Francis P. Antel | 1st Edition 1969 | Literary Investment Guild, Ltd. | Palm Beach, Fla.

16° [19], [1 blank], 193, [3 blank]p; 8 photos; 3 letters in facs. Bright red plasticized paper over bds; gilt title on cover; gilt title & publ logo on spine. Black dj, col photos on cover; flap resume. 22.8 x 15.2 cm(9 x 6 in). Cut. $5.00. ISBN 87541-001-9; LC 75-77471.JSL.

Cont: 1/2tp; another 1/2tp; tp; publ data; ackn; dedic; tab cont; ills list; introd; another 1/2tp; first ill; another 1/2 to; 10 chs; two epilogues; index; 3 blank p.

"The author was the sole negotiator for the return of the famed DeLong Ruby, stolen from the American Museum of Natural History in New York City." An account in typical breathless journalese of the daring robbery in the evening of October 29, 1964, the aftermath, and the author's role in the recovery of the ruby. A thin story, greatly inflated by insignificant conversations and asides. Photos of several gems and persons involved.

173. -----1969(?) reprint. Identical; but covers now stamped in black only andwith black picture of ruby on front cover.

174. ANTIKE GEMMEN IN DEUTSCHEN SAMMLUNGEN München: Prestel, 1968-1975. 5 vols, pls. See: Bd I by BRANDT, E v; Bd II by ZWIERLEIN-DIEHL, E; Bd III GERCKE, P, et al; Bd IV PLATZ-HORSTER, G & ZAZOFF, P: Bd V ZAZOFF, P; Bd III-V not seen; data from Arntzen, p 591. 175.

175. ANTIQUITIES OF THE RUSSIAN EMPIRE. ecclesiastical, imperial, and other antiquities of the Russian Empire; published by command of the Emperor Nicholas I, under the direction of an imperial commission, by S.Stroganov, M.Zagoskin, J.Snegirev, and A.Th.Veltman. Text Russian; descript. of pls. in Fr. & Engl. Text: 1 v., 4to; plates: 6 v. Large folio. Moscow, 1849-53. Not seen: above from *Catalogue of the Books in the Library at the Assay Office, Birmingham*, 1914, p 9(see under WESTWOOD, ARTHUR). There are 6 divisions to the work, of which the second includes imperial insignia, crowns, etc, and is illustrated by 101 chromolithographs. Apparently a very rare work.

176. ANTON SMIT & CO.

Diamonds | for | Industrial | Purposes | Anton Smit & Co., N.V. | Antwerp [No date, ca 1933; wrap title]

Centerstapled: 32 p; 42 figs; 1 illust of office building. Silver, heavy paper wrap; raised gray lett title. Basic wrap color bright blue. 23.1 x 14.3cm(9 x 5 5/8 in). Cut. Wraps overlap slightly. JSL.

Tersely written: history of the diamond, properties, classification of industrials, carbons, edgeless carbons, ballas and boarts, principal uses; many photos of stones and diamond mining scenes in South Africa and Brazil.

177. -----1944

Diamonds At Work | Anton Smit & Co., Inc. | ... | 333 West 52nd Street, New York 19, N.Y., U.S.A. | ... | Copyright 1944...

Title spread over two pages. Centerstapled: 27, [1 blank]p; covers included in pag; 40 text photos & drawings; 2 tabs. Green wrap, cover title. 22.7 x 15.2 cm(9 x 6 in). JSL.

178. ANTONIOLI, CARLO

Antica Gemma | Etrusca | Spiegata, Ed Illustrata | Con | Due Dissertazioni | Da | Carlo Antonioli | Ch. Reg. Della Scuole Pie | Pubblico Professore | Nell' Universita Di Pisa | [woodcut orn.] | In Pisa L'Anno MDCCLVII. | [double rule] | Nella Nuova Stamperia Di Gio. Paolo Giovannelli | E Compagni | Con Licenza De'Superiori. [1757]

4°: VIII, 96 p; §⁴, A-M⁴; engrav pl facing p 1; ch orn. 22.2 x 16.3 cm(8 3/4 x 6 1/2 in). Cropped. GS 33-202(Kunz Coll); Metropol Mus 9. Cont: tp; dedic; pref; pl; text.

On an engraved gem in the Stosch Collection which portrays the heros of the Greek expedition against Thebes.

179. ANTONIEWICZ, WLODZIMIERZ. Pochodzenie i gatunki bursztynu Europie. *Wiadamości Archeol*, 8, 2/4, 1923, 113-38, ills, tab, biblio. Not seen; in Polish, on European amber.

ANTWERP. JUWEELENSTOET, 1923, see JUWEELENSTOET

180. ANTWERP SHIPPING NEWS Antwerp and the diamond industry, nos. 7, 8, 9, 10, 1967, 28 p, ills, Not seen.

181. ANTWERPEN, CHARLES VAN

Diamonds | All Over | The | World | By Charles Van Antwerpen.

Title overprinted on pale blue & white pattern; inside back cover: "Printed on the press of S.A. Imprimerie et Publicite du Maris, Brussels" (for distribution during World's Fair, 1958). "Le Diamant" on front cover.

Cementb: 42, [2] f; many photos(1 col) on plain or tinted grounds. 22 x 17 cm(8 5/8 x 6 5/8 in). Glossy paper. JSL.

Brief sections on history of diamond, properties, cutting, mining, Belgian Congo stones & production, etc. Issued in the Diamond Building, Brussels World's Fair, 1958.

182. ARACIC, STEPHEN(1939-)

Fortunes | In Opals | From The | Lost Sea | by Stephen Aracic | (An Expert On Opal Mining)

Cover & dj title reads "Fortunes In Australian Opals."

P. [ii]: "Published and distributed by Stephen Aracic... Lightning Ridge 2392, N.S.W." 1979, but dj flap states "Distributed by Sapphire Books... Strathfield 2135, N.S.W."

Cementb: vii, [1 blank], 150, [2 blank]p; 58 b&w photos, 8 col photos on 2 glossy f not incl in pag. Stiff col wrap covered with matching dj. Back cover resume. 21 x 13.5 cm(8 1/4 x 5 3/8 in). Cut. Nat Libr Aus No & ISBN 0 9595830 0 9. Ca US $11.75. JSL.

Cont: tp; dedic & publ data; tab cont; ackn; pref; 20 chs(last ch unnumb is a glossary); [2] blank p.

Aracic, native Yugoslavian, escaped in 1964 and arrived in Lightning Ridge, New South Wales where he took up opal mining. Interesting, informal narrative his experiences with much practical mining information as well as on gemology of opals. There is an incongruous ch on his attempt to publicize an invention for braking baby carriages as well as a short ch on Mexican opals which also adds little to the text. Most valuable for its practical mining information and use of latest types of mechanized equipment which will serve as invaluable guides to those starting to mine for themselves. Recommended by the Opal Society of Australia. Many excellent photos; no index, no bibliogr. Rev *J Gemm* 18, 5, 1983, p 444.

ARBOLAYS, see ALFONSO X

ARDEMANIO, GIOVANNI BATTISTA, see ARDENTE ETEREO

ARDEN GALLERY, "3000 Years of Chinese Jade," see SALMONY, A, 1939

183. d'ARDENNE DE TIZAC, H

L'Art Chinois | Classique | Par | H. d'Ardenne De Tizac | Conservateur Du Musée Cernuschi | Ouvrage Illustré De 30 Gravures Dans Le Texte | Et 162 Gravures Hors Texte | [publ monogr] | Paris | Henri Laurens, Editeur | 6, Rue De Tournon (VIe) | [rule] | 1926 | Tous droits de traduction et de reproduction resérvés.

8°: [4], 364 p, 104 photo pls on both sides of 52 bound-in glossy f + 30 text figs. Tan wrap, title in red & black on front cover with rules; red & black lett & rules on spine; black lett on back. 25.5 x 16.2 cm (9 7/8 x 6 1/2 in). Uncut. Paper badly browned. JSL

Cont: 1/2tp; adverts; tp; pref; 14 chs; tab of Chinese dynasties; 2 illust lists; tab cont.

Brief discussions of nature and origin of raw jades, virtues assigned to jades by the Chinese, etc, most of the jade material on p 157-80, also p 270, 300-3; many pls show carved jades dated to classical periods.

ARDENTE ETEREO

This name is not only a pseudonym but all authorities consulted who cite this work do not agree either on the pseudonym or on the name of real author, if indeed such is known. C E Rappaport, bookseller of Rome, gives the real name as Giovanni Battista Ardemanio(pers comm), citing G Melzi's *Dizionario di Opere Anonime e Pseudonime di scrittori italiani*, Milano, 1852, 2, p 36, wherein Melzi provides an entry under the name Inquieto [used in the 1662, Venice edit] as author but noting that the real author is Ardemanio. Rappaport's letter further states "I have not been able to find reference to this work under the alternative name of Arnobio, Cleandre." This last is used in Libr Congress card 8-36374, which notes that Ardente Etereo is a pseudonym as is "academico Casinense Inquieto." However, in a 1967 catalog, Renzo Rizzi, Milanese bookseller, describes a copy of the 1619 Milan edition, claiming that this is the "Edizione Originale," and that Melzi erroneously gave the name of the dedicatee as author, that is, Ardemanio. In still another 1976 catalog, the name D Pasquardi is given as author of the 1630 Padua edition although it is obviously the name of the publisher. Graesse and Brunet are silent on this work while only the 1676 edition of Venice is mentioned in Rosenthal's *Bibliothece Magica et Pneumatica*, 823. In view of this confusion, it seems best to employ the pseudonym that appears in the title of the first (1602) edition until the name of the real author has been firmly established.

184. -----1602, first edit, Venice

Il Tesoro | Delle Gioie, | Trattato | Marauiglioso, | Intorno Alle Vertvti, E Proprieta | più rare di tutte le Gioie, Perle, Gemme, Auori, Vnicorni, | Bezaari, Balsami, Cocco, e Malacca; e di tutte l'altre Pietre | più famose, e pregiate da Diligentissimi Scrittori, Antichi, e | Moderni, Arabi, Greci, Latini, et Italiani, Sagri, e Mondani | pienamente lodate, stimati, e consciute Saluteuoli e Medici- | nali. Delle quali anche spesso sene accenna nelle Diuine | Carte; & insieme si discorre del Priego, e Valore dell'Eccel- | lentiss. Lettovario del Giaconto. | Raccolto, & ordinato, Per Cleandro Arnobio | Academico Ardente Etereo: | Et hora in questi nouelli giorni dato alla luce del Mondo; e con | molta Accuratezza veduto, acconcio, & ornato con Postil- | le, e con vn'Ampio Racconto Abicidario | de Capi, e nomi di esse Gioie; | Da Archangelo Riccio. | Dedicato | All'Illustriss. e Giustiss. Sign. Podesta, e Capitano di | Roigo, e Proueditor Generale di tutto'l Poleseno, | Il Sig. Lvigi Bragadino. | Con Privilegio. | [floral orn] | In Vinetia, Appresso Gio. Battista Ciotti. | al Segno dell'Aurora. M. DCII. [Venice, 1602]

8°:[40], 256 p; a-b^{8}, c^{4}, A-Q^{8}. Ch orns, orn inits. 14.7 x 9.5 cm (5 3/4 x 3 3/4 in). Cropped. R Hauck Coll (seen); DeGolyer Coll, U Okla; USGS 34-753 Kunz Coll.

Cont: tp; dedic by Riccio to Bragadino; pref by Riccio noting ancient authorities consulted; alphabetical gemstone index, etc; laudations & letters; text in 52 chs.

A rare work, this first edition being far rarer than its successors, and a pity because it is much more attractively designed and printed. A notable feature is the very abundant marginalia in very small type which in numerous instances entirely fill available margin space. While this work principally treats mineral gemstones it includes a bewildering variety of other substances, as can be divined from the title, because at the time they were almost as rare and costly as the usual gemstones. It opens with a treatise on Biblical gemstones with a unique doublepage summary, p[8-9], which in the Hauck copy has been spared the binder's needle by cementing the leaf to a hinge pasted to the adjacent doubleleaf, thus allowing the thread to secure the leaves without mutilation of the table. The latter lists stones as angelic, apostolic, and tribal, and gives colors. Biblical sources are noted. Next are chapters devoted to the gemstones themselves, beginning with the giacinto (possibly zircon or garnet), citing the statements and opinions of ancient writers regarding physical properties, medicinal, and magical virtues, and giving sources of information. There appears to be very little information supplied by the author himself who thus seems to be a compiler without much personal knowledge of the materials that he includes in his book. The following are treated: topaz, ruby & carbuncle, diamond, sapphire, turquoise, emerald, sardonyx, morion, sard, carnelian, onyx, beryl, chrysolite, amethyst, jasper, nephrite, plasma, and others, including some that cannot now be identified. Also treated are bezoars, both mineralic (ie, concretions) and animal, coconut from the Maldive Islands, cachalong, fish bones, serpentine, fossils of various species, animal teeth, horns, tusks, skin and blood of the rhinoceros, pearls, balsams, and closing the text, two electuary medicines using hyacinth (zircon?), and finally, a note on the hyacinth.

184A. -----1619, 2nd edit Milan.

Tesoro | Delle Gioie | Trattato curioso, | Nel quale si dichiara breuemente la vir- | tù, qualità, & proprietà delle Gioie, co- | me Perle, Gemme, Auori, Vnicorni, | Beazari, Cocco, Malacca, Balsami, | Contraherba, Muschio, Ambra, Zibet- | to, & delle altre cose più famose, & pre- | giate da tutti li diligenti Scrittori An- | tichi, Moderni, Arabi, Greci, Latini, | Italiani, Sacri, & moderni, lodate, sti- | mate, & conosciute saluteuoli & medi- | cinali | Raccolto dall' Academico Ardente Etereo. | Reuisto, & accresciuto dall'Academico | Casinense Inquieto. | Dedicato à Monsig. Gio Battista | Ardemanio, &c. | [woodcut vignette, a reclining cat, in elaborate baroque frame] | [rule] | In Milano, Per Gio. Batt. Bid. 1619. | Con licenza de'Superiori, & Priuilegio.

12°: [23], [1 blank], 209, [1], [6 blank]p; a^{12}, A-I^{12}; ch orns. Several p no misprints. 13.8 x 8 cm(5 1/2 x 3 1/8 in). Cropped. JSL; Hauck Coll.

Cont: tp; imprimatur; dedic; pref; index to substances; index to musical instruments; recipes; authors cited; index; blank p; text in 68 chs; colophon; 3 blank f.

A lesser quality edition in which all of the marginal notes are omitted. In an attempt to make text and signatures conform to some notion of balance, almost all of the original front matter has been eliminated and various tables substituted that add little to the value of the work, eg, a table of European musical instruments! On the other hand, new material includes data on coral, garnet, lumachelle, eagle stone, the "sea chestnut" and its virtues, ditto for the teeth of the sea horse(!) and other equally bizarre substances thought to possess magical or medicinal properties.

184B.-----1626, Padua edit. Tesoro delle gioie, trattato cvrioso. el quale se dichiara breuemente la virtù, qualità, & proprietà delle gioie... Raccolto dall academico Ardente Etereo [pseud.] Reu., & accresciuto dall'academico Casinense Inquiet [pseud.] In Padova, P.P. Tozzi, 1626. 12 p. l., 212 p.; l l. 14 1/2 x 7 1/2 cm. not seen: taken from LC 8-36374†.

184C.-----1630, Padua. Tesoro delle gioie, trattato cvrioso, nel quale si dichiara breuemente in virtù, qualità, & proprietà delle gioie, come perle, gemme, auri, vnicorni, bezzari, cocco, malacca, balsami, contraherba, muschio, ambra, zibeto. Et delle moderni, arabi, greci, latini, italiani, sacri, & moderni. Lodate, stimate, & conosciute saluteuoli, medicinali. Raccolto dall'academico Ardente Etereo [*pseud.*]... Reuisto, & accresciuto dall' academico Casinense Inquieto [*pseud.*]. .. In Padoua, per Donato Pasquardi, 1630. 11 p, l., 212 pp. 14 cm. USGS GS 34-572, G F Kunz Coll. Not seen.

185. -----1656, Venice

Tesoro | Delle Gioie. | Trattato Cvrioso, | Nel quale si dichiara breuemente in vir- | tù, qualità, & proprietà delle Gioie, | Come Perle, Gemme, Auori, Vnicorni, Bez- | zari, Cocco, Malacca, Balsami, Contra- | herba, Muschio, Ambra, Zibeto. | Et delle altre cose più famose, & pregiate da | tutti li diligenti Scrittori Antichi, | Moderni, Arabi, Greci, Latini, | Italiani Sacri, & Moderni. | Lodate, stimate, & conosciute Saluteuoli, | & Medicinali. | Raccolto dall'Academico Ardente Etereo. | Reuisto, & accresciuto dall'Academico | Casinense Inquieto. | [fleur-de-lis orn] | Venetia, M. DC. LVI. | [rule] | Appresso | Givnti. | Con Licenza de'Superiori. [Venice, 1656]

12°: [24]. 212. [4 blank]p; *^{12}, A-I^{12}; woodcut ch orns. 13.5 x 7 cm(5 1/4 x 2 3/4 in). Cropped. JSL.

Cont: 1/2tp; tp; tab substances; recipes; authors cited; index; text; 2 blank f.

186. -----1662, Venice

Tesoro | Delle Gioie. | Trattato Cvrioso, | Nel quale se dichiara breuemente le virtù | qualità, e proprietà delle Gioie, | Come Perle, Gemme, Auori, Vnicorni, Be- | zaari, Cocco, Malacca, Balsami, Countr'- | herba, Muschio, Ambra, Zibetto. | E dell'altre cose più famose, e pregiate di | tutti li diligenti Scrittori Antichi, | Moderni, Arabi, Greci, Latini, | Italiani, Sacri, e Moderni. | Lodate, stimate, e conosciute saluteuoli, e | Medicinali. | Raccolto dall'Academico Ardente Etereo. | Reuisto, & accresciuto dall'Academico | Casinense Inquieto. | [orn] | Venetia, M. DC. LXII. | Appresso Francesco Ginami. | [rule] | Con Licenza de' Superiori. [Venice, 1662]

12°: [12], 212, [4 blank]p, a^{6} A-I^{12}; ch orns. 13.1 x 6.8 cm (5 1/8 x 2 5/8 in). Cropped. JSL; GS 34-530, Kunz Coll.

Cont: tp; tab substances; recipes; authors cited; index; text; 2 blank f.

187. -----1670, Venice

Tesoro | Delle Gioie, | Trattato Cvrioso, | Nel quale si dichiara breuemente le virtù | qualità, e proprieta delle Gioie. | Come Perle, Gemme, Auori, Vnicorni, Be- | zaari, Cocco, Malacca, Balsami, Contr'- | herba, Muschio, Ambra, Zibetto. | E molt'altre cose più famose, e pregiate di | tutti li diligenti Scrittori Antichi, | Moderni, Arabi, Greci, Latini, | Italiani, Sacri, & altri- [sic] | Lodate, stimate, e conosciute saluteueoli, e | Medicinali. | Raccolto dall'Academico Ardente Etereo. | Reuisto, & accresciuto dall'Academico | Casinense Inquieto. | [floral orn] | In Venetia, Per il Miloco. 1670. | [rule] | Con Licenza de'Superiori.

12°: 214 p; A-I[12]; ch orns. 13.3 x 7.5 cm(5 1/4 x 2 7/8 in). Cropped. JSL; GS 34-531, Kunz Coll.

Cont: tp; tab substances; recipes; authors cited; index; text.

188. -----1676, Venice Tesoro delle gioie, trattato cvrioso, nel quale si dichiara brevemente le virtù, qualità, proprietà delle gioie, come perle, gemme, auori, vnicorni, bezaari, cocco, malacca, balsami, contr'herba, muschio, ambra, zibetto... Raccolto dal l'academico Ardente Etereo [*pseud*] Reuisto, & accresciuto dall'academico Cassinense Inquieto [*pseud*] In Venetia, Per il Conzatti, 1676.214 pp. 14 cm. GS 34-532, Kunz Coll. Not seen.

AREM, JOEL E.

Amer gemologist, mineralogist, gem merchant, author; BS Brooklyn Coll 1964, MA Harvard U 1967(geol), PhD 1970(mineralogy); Gemm Assoc Gt Brit FGA(Tully Medal, 1976).

189. -----1973

Joel E. Arem | Man-Made Crystals | Smithsonian Institution Press Washington, D.C. 1973 [Title in blue & black; "Publ No 4830"]

8°: 109, [3]p; col front; 35 col or part-col ills; 52 figs. Headings in blue. White cloth, blue lett, blue endp; col dj with resume, vita; other titles of press on back. 25.8. 21.5 cm(10 1/8 x 8 1/2 in). Cut. $15.00 LC 73-8695; ISBN 0-87474-139-4. Paper, sewn $5.95; ISBN 0-87474-141-6. JSL.

Cont: 1/2tp; pl; tp; publ data; tab cont; pref; 7 sects; appends; gloss; crystal growing instruct; index.

Defines crystals; importance in technology; historical review of attempts to grow corundum, diamond, quartz, etc. Several modern techniques described to synthesize diamond, corundum, spinel, quartz, beryl, etc; some have counterparts in natural minerals but others unknown in nature. Tech applications described, with "case histories" of various crystal compounds & elements deliberately synthesized to fill specific needs. Appendixes: lists of acronyms, trade names for diamond imitations, chemical elements, glossary of crystal-growing terms and the like, and brief but useful instructions for growing water-soluble crystals at home. Handsome production; glossy paper allowing sharp reproduction of numerous excellent photographs and line drawings. Rev M O'Donoghue, *J Gemm*, 14, 4, 1974, 192; *G & G*, 14, 7, 1973, 218-9.

190. -----1975

Gems | and Jewelry | [3 col photos] | [star] | A Ridge Press Book [rooster logo] | Bantam Books | [rule] | Toronto · New York · London [New York: The Ridge Press, Inc, 1975]

Cementb: 159, [1]p; 178 col photos; 1 tinted ill; 5 colored drawings. Stiff wrap, col photo on cover & back; resume. 18 x 10.9 cm (7 1/8 x 4 1/4 in). Cut. $1.95. LC 75-10948. JSL.

Cont: tp; photo credits & publ data; tab cont; text; index; adverts & vita.

Survey of entire world of gems, beginning with brief essay on place of gems in culture, gems defined, origin, marketing, units of measurement, properties, and with main text descriptions of common gemstones, with an important section on rare or unusual species & varieties. Also a large section on synthetic gemstones and sections on gems as investments, identification procedures, lapidary as a hobby, jewelry metals, cutting styles, list of birthstones, recommended readings(p 156, 10 entries). Most valuable feature: authoritative comments for most gemstones on usual sizes, qualities, relative values, and best colors. Lavishly illustrated with a remarkable assortment of cut & rough gem photos but all somewhat blurred due to coarse-surfaced paper used. Rev *Austral Gemm*, 13, 9, 1979, 312.

191. -----1975, hardcover with title change

World Of Knowledge | Gems | and Jewelry | By Joel Arem | [3 col photos] | A Ridge Press Book | [star] | Grosset & Dunlap | [rule] | Publishers. New York [1975]

ISBN 0-448-l245-X(Trade), 0-448-1328-9(library). White, plasticized paper over bds; black title on cover + small color circle & large col photo brilliant diamond; 2 col photos, advert on back cover. Omits "Special Offer" advert on last p, else identical.

192. -----1977

Color | Encyclopedia Of | Gemstones | Joel E. Arem. Ph.D. F.G.A. | [publ monogr] Van Nostrand Reinhold Company | New York Cincinnati Dallas San Francisco | London Toronto Melbourne [1977]

8°: xxvii, [1 blank], 147, [1 blank]p; 313 col photos on 32 bound-in glossy f; 7 graphs; 1 line drawing. Turquoise-blue cloth, gold title on cover & spine. White dj, col photos, cover title in black, overlapping other surfaces; flap resume; vita. Pale blue endp. 27.7 x 21.7 cm(10 7/8 x 8 1/2 in). Cut. $29.95 to 1/1/78; thereafter $35.00. LC 77-8834; ISBN 0-442-20333-0. JSL.

Cont: 1/2tp; tp; publ data; dedic; ackn; tab cont; text; biblio(p 137-8, 62 entries); mineral list; graph(RI vs Crit Angle); periodic tab; blank p.

Invaluable reference work compiling succinctly essential data on gemstones coupled with colored photographs illustrating same, the latter principally cut stones, also cabochons & some rough specimens; over 220 natural species, mineral & organic, and over 100 rarities which appear here in colored photographs for the first time. Almost all photos slightly blurred due to special technique employed by author to avoid excessive reflections; in contrast, rough & carved items are sharp. The color renditions are very accurate and provide excellent visual references to readers desiring to compare their own stones to those illustrated. Preliminary text presents mineralogical data on gemstones as a whole, the substances that have been used for gemstone purposes for wear or for collections, gemstone deposits, identification, sources of gemstones, explanation of the data presentations given for each species, the latter forming the main

text with species and varieties entries given alphabetically. Data include chemical composition, crystallography, colors, luster, hardness, optical properties, modes of occurrence, principal sources, usual size of cut gems(but mentioning particularly large known examples in private or public collections), miscellaneous information, and derivations of names. Numerous tables provide property data for gemstones in series or with wide variations in properties. A great deal of information in this text is not available in standard texts on gemology. Bibliography under headings of general, jewelry, diamonds, specific gemstones, mineralogy, journals, with a large graph following for the gem cutter to determine correct faceting angles, and a periodic table of the elements. An oversight in make-up of the book resulted in omission of information on the diamond, later supplied in insert form by the publisher/and as a leaf numbered 36a and 36b in later printings. Rev *Austral Gemm* 13, 7, 1978, 241-2.

192A. -----1987, 2nd edit

Color | Encyclopedia Of | Gemstones | Second Edition | Joel E.Arem, Ph.D., F.G.A. | [logo] Van Nostrand Reinhold Company | [rule] New York [rule] [1987]

16°: vii, [1], 248 p + 344 col photos on [32] glossy f bound-in, also col pl(6 figs) tip-in betw p 24-5; several tabs & diagrs in descriptive portion, also in ch on synthetics. Black, cloth-type paper over bds, silver-lett spine; col dj(resume, vita(. 28 x 21,5 cm(11 x 8 1/2 in). Cut. LC 86-26759; ISBN 0-442-20833-2. $49.95.

Cont: 1/2tp; tp; dedic & publ data; tab cont; pref; ackn; introd; sources of data; thermal properties; chromatic systems(col pl); col measurement; descriptions; synthetics; synthetics list; synthetics trade names; biblio(p 236-8); gemstones index; col pls sect.

"A major feature of this second edition is the new coverage of synthetic gems... also of special interest, and new to this edition, is a detailed analysis of color and color measurement... here the author presents a comprehensive listing of machine-generated color measurements on a wide range of gemstone species and varieties. Machine color analysis is far more accurate than visual estimation in gemstone description, and this is the first work ever to present this kind of information"(from dj flap). In regard to the color photos, all appear to be considerably improved in respect to sharpness and color quality, but there are numerous substitutions throughout, and when both first and second edition versions are compared side by side it can be seen how vastly the colors can change from one edition to another for precisely the same photographs!

193. ARENSWALD, C F VON

Galanterie= | Mineralogie | und | Vorschläge | zur | Naturwissenschaft | für die Damen,| in sieben Unterhaltungen | abgefasst | von | C.F. von Arenswald. | [orn rule] | Halle, | bey Johann Jacob Gebauer. | 1780.

8°: 152 p; A-J^8, K^4; woodcut ch orns, rules. 16.9 x 10.4 cm(6 5/8 x 4 1/8 in). Cropped. JSL. Cont: tp; 7 ch. Agassiz I, 140; Böhmer, 4, 1, 82.

Charming work designed to gently instruct young ladies in the science of gemology and collecting natural history specimens. Begins with a general inspirational lecture, then a long chapter on genuine and false gems and incidentally describing many major and minor species as well as several ornamental stones. An ode to the diamond(p 13)and several poems on the composition and worth of gems appear in this chapter. Another chapter is on pearls and provides good coverage of the subject with remarks on the freshwater pearls of European rivers. The next chapter treats lapidary work with brief explanations of faceting, cabochon work, and engraving of gems, followed by a chapter which treats the related arts of the jeweler in selecting and mounting gems. The penultimate chapter advises what natural history objects should be collected, arranged, and cared for, and even includes suggestions for a collection of art objects. The last chapter carries on the theme of collecting by giving a fictional conversation between two girls on the value of forming such collections. Apparently a very rare work: I have not been able to discover any information on this work nor of its author.

d'ARGENCÉ RENÉ-YVON LEFEBVRE

B France; educ Sorbonne & Cambridge U; also studied in Viet Nam, Taiwan, Japan; former curator Cernuschi Mus, Paris; also directed museums Saigon and Hanoi; former prof Univ Calif Berkeley; current dir San Francisco Center of Asian Art and Culture.

194. -----1972

Chinese Jades | In The | Avery Brundage Collection | A selection of religious symbols, insignia of | rank, ceremonial weapons, pendants, ornaments, | figurines, miniature mountains and containers | from the neolithic period to modern times. | By René-Yvon Lefebvre d'Argencé | Published by | The de Young Museum Society and Patrons of Art and Music | for the Center of Asian Art and Culture [1972]

P[4]: "Produced by Kodansha International Copyright in Japan 1972, by the de Young Museum Society... Printed in Japan..."

4°: 184 p; col front pl + 80 pls all included in pag. Light brown unfinished cloth(silk?), white lett on spine, pale brown endp. Col dj, jade carving on cover with white lett on light brown ground; back white. Also in stiff col wrap, front cover like dj above; same size. 22.6 x 20.4 cm(8 7/8 x 8 in). Cut. Paper $4.80; hardcover $10.00. LC 70-177387. JSL.

Cont: dedic; pl; tp; publ data; tab cont; ackn; introd; catalog & pls; chronology; abbrev key(p 177-8, 25 entries); biblio(p 179-84, 109 entries; includes articles, periodicals, Chinese works).

Illustrates 120 jades & hardstones selected from ca 1200 pieces in the Avery Brundage collection. Introduction provides notes on collection, nature of jades, principal sources of material used by the Chinese, lapidary treatment, dating, stylistic development, and symbolism. Besides jades, there are specimens of lapis lazuli, white chalcedony, red & white chalcedony, turquoise, coral, and exceptionally, two pieces carved from the rare material delessite, a massive chlorite mineral, and another made from saussuritized gabbro! Outstanding photographs, carefully lighted to emphasize carving details; exceptional bibliography on jade. Rev Born, 1982, 63-4.

195. ------1977, 2nd edit Tokyo, 1977, 184 p, 80 col pls, 23 x 20 cm, paper. Not seen: data from Han-Shan Tang, Ltd, London list 28, 1985.

d'ARGENVILLE, A J D, see DEZALLIER DE ARGENVILLE, A J

ARGENZIO, SALVATORE VICTOR(1902-)

B New York City; to Denver in 1918 to join brother (Joseph) in opening first family jewelry store in 1925; retired.

196. -----1966

The Fascination of Diamonds | Victor Argenzio | David McKay Company, Inc. | New York [1966]

8°: vii, [1 blank], 184 p; 60 fig. Pale blue unfinished cloth, gold spine title. White dj; cut diamond on cover + blue lett; photo diamond necklace back cover; resume, vita & portrait photo. 20.4 x 13.7 cm (8 x 5 3/8 in). Cut. $4.50. LC 65-27641. 1966 reprint cost $5.50. JSL.

Cont: 1/2tp; tp; dedic & publ data; fwd; tab cont; 14 chs; index.

Basic facts on all major aspects of the diamond; six chapters in the nature of personal reminiscences(interesting, useful); remaining chapters on mining, processing, cultural history, De Beers organization, etc. Rev *J Gemm* 10, 3, 1966, 108 "simply written and refreshing, which should become a useful introduction for the lay reader;" *G & G* 12, 2, 1966, 63.

197. -----1967, London edit

The Fascination Of | Diamonds | Victor Argenzio | London: George Allen And Unwin Ltd | Ruskin House Museum Street [1967]

8°: 101, [3]p; 45 photos on 14 bound-in glossy f; 20 fig. Pale blue cloth-type paper bds, silver spine title; te stained light blue. Light blue dj with Hope diamond necklace on cover, title in black; photo Koh-i-nur replicas on back cover + resume & other publ books. 21.5 x 13.8 cm(8 1/2 x 5 3/8 in). Cut. Price 30s. net. JSL.

Cont: 1/2tp; tp; publ data; dedic & ackn; fwd; tab cont; ill list; 14 chs; publ data; resumes of other publ books.

198. -----1974

Diamonds Eternal | By Victor Argenzio | David McKay Company, Inc. | New York [1974]

8°: xii, 290, [2 blank]p; ca 140 photos & other ills. Dark blue unfinished cloth, silver spine title, author's facsimile signature in silver on cover. Tan endp. Blue dj, diamond col photo on cover, col photos back cover + author portrait, resume, vita. 22.6 x 15.1 cm(8 7/8 x 6 in). $12.50. LC 73-84072; ISBN 0-679-50427-3. JSL.

Cont: 1/2tp; tp; publ data; dedic; tab cont; ackn; fwd; text title; text in 2 parts(18 & 9 chs); gloss; biblio(p 276-80, entries given for each ch); ackn; index; blank f.

Wide-ranging scope, scarcely any important aspect neglected in a popular presentation that is both interesting and accurate. First part: famous diamonds, crown jewels, tables of largest rough & cut stones, Marie Antoinette's necklace, story of Light of Peace diamond, the mining industry in all aspects, diamond trade and illicit dealings, synthetics and imitations, and personal reminiscences of the author. Second part: advice to readers on buying stones, cautions about investment value of same, other buying information. Rev *J C K* Feb 1977, "by far the most comprehensive and exciting diamond-education "text" for the general public available today in the English language ." Rev *G & G*, 15, 2, 1975, 63-4; *J Gemm*, 14, 6, 1975, 298.

199. -----1977

Crystal | Clear | The Story of Diamonds | Victor Argenzio | David McKay Company, Inc. | New York [1977]

Edgesewn: ix, [1 blank], [2], 51, [1 blank]p; 27 ills.Greenish-blue paper over bds; gold spine title. Greenish-blue dj, col photo pendeloque diamond on cover, resume, flap vita. 22.8 x 15 cm(9 x 5 7/8 in). Cut. LC 76-16347; ISBN 0-679-20317-6. $6.95. JSL.

Cont: 1/2tp; tp; publ data; dedic; pref; tab cont; text title; ills; text; blank p.

Written to supply basic information to school students; historical notes, properties, sources of diamond, United States deposits, recovery of stones, cutting and cutting centers, industrial diamonds and synthetics, the last being the largest chapter. clearly written. Rev F H Pough, *JCK*, Jun 1982, 158.

200. ARISTOTLE, or ARISTOTELES, *Pseudonym.* A work on gems erroneously attributed to the famous Greek scientist and philosopher(384-322 BC); it has passed down to us via numerous MSS and incorporations in other works. Its origin, content, possible authorship, etc, were discussed by a number of authorities, among them, Valentin Rose "Aristoteles de lapidibus und Arnaldus Saxo," 1875, which see, J Ruska, "Das Steinbuch des Aristoteles," 1912, which see, L Thorndike, *A History of Magic*, vol 2, 1923, ch 48, but esp p 260-62, H Tertsch, *Das Geheimnis der Kristallwelt*, 1947, p 70, and P Schmidt, "Das Steinbuch des Aristoteles," in Sonderheft, *Zs Dt Ges Edelsteink*, (Festchr K Schlossmacher), 1957, p 89-92, which see.

201. ARIYARATNA, D H

Gems Of | Sri Lanka | By | D.H. Ariyaratna | Geology - University of Sri Lanka | (Katubedde Campus) | Instructor in Gemmology | (Stafford Institutes) | Author of | Resplendent Isle and Gems | (A Book in Sinhala) [Columbo, Sri Lanka, 1976]

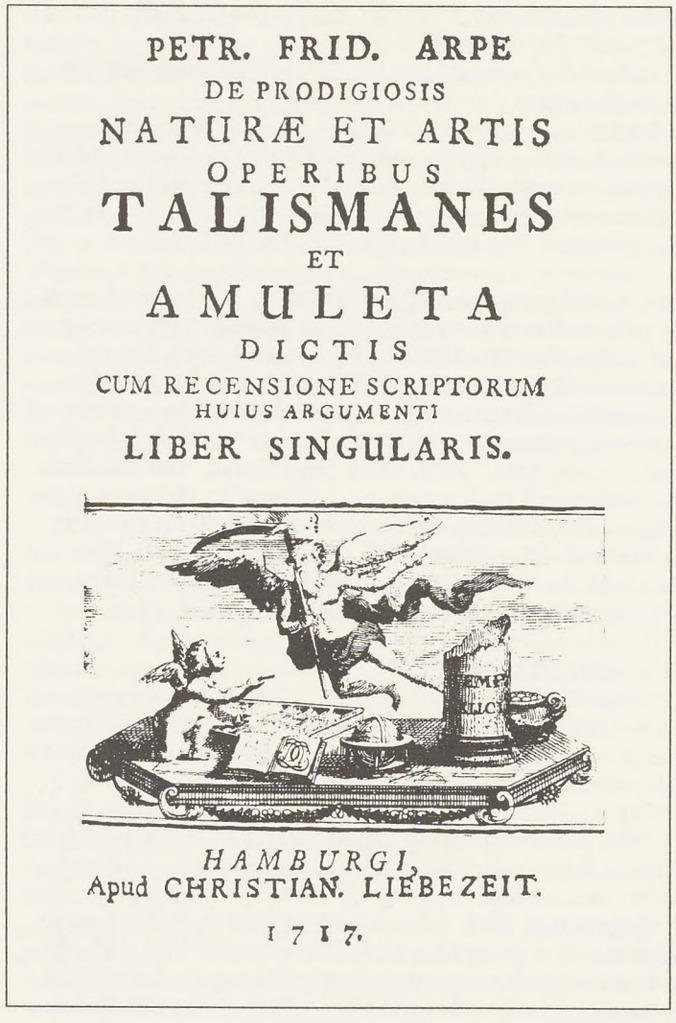
"First printed 1976 (On the occasion of the 5th Non-Aligned Summit Conference held in Sri-Lanka in August in August 1976). Second Impression March 1977."

Edgestapled: [13], [1 blank], 49, [1]p; 3 fig(1 sketch map), 4 photos on 4 glossy f bound-in. Heavy white wrap, dark blue lett on cover; white dj, col photo of cut gems on cover; black spine title. 13.7 x 12.3 cm(5 3/8 x 4 3/4 in). Cut. US $1.80. JSL.

Cont: tp; publ data; dedic; publ data; fwd, pref; tab cont; introd; 6 chs; gloss; English-French terms; property tabs; birthstones.

Elementary, lucid account of gem mining and cutting industry of Sri Lanka(Ceylon); regulations; native gemstones, cutting practises; values; the State Gem Corporation and its functions; private trade. Useful for tourists but offers little information to the student of gemology.

202. ARIZONA HIGHWAYS. Petrified Forest. Special issues containing important information and generally splendid color photographs of the Petrified Forest National Park, noted for its high quality cuttable woods, most supplies of which now are mined from privately-held areas outside the park: Vol 24, 5, May 1948, 1, 12-17; 34, 7, Jul 1958, 1, 6-29; 39, 4, Apr 1963, 2-35(commemorates establ of the national park from the former national monument); 43, 6, Jun 1967, 1-31; 45, 5, May 1969, centerfold col photos, brief text p 34; 51, 6, Jun 1975, 12-27-(text by C W Barnes, many photos, and "Story of the Petrified Wood Co," p 32-33, photos; 59, 2, Feb 1983, 2-39, (exceptional issue with information on important fossil finds). JSL.


PETR. FRID. ARPE
DE PRODIGIOSIS
NATURÆ ET ARTIS
OPERIBUS
TALISMANES
ET
AMULETA
DICTIS
CUM RECENSIONE SCRIPTORUM
HUIUS ARGUMENTI
LIBER SINGULARIS.
HAMBURGI,
Apud CHRISTIAN. LIEBEZEIT.
1717.

213. Titlepage of Arpe's systematic criticism of works on amulets and talismans

203. ARIZONA HIGHWAYS. Turquoise. Special issues emphasizing Southwest turquoise and Indian use and manufacture of: Vol XLX [sic], 1, Jan 1974, 48 p, ills(Indian use and sources); 51, 2, Feb 1975, 48 p, col & b&w photos(peridot of Arizona, Tucson Mineral Show by Robert W Jones); 51, 3, Mar 1975, 48 p, col & b&w ills(coral in Indian jewelry, pawns, new Indian jewelry). JSL.

204. ARIZONA HIGHWAYS Turquoise Blue Book

Arizona | Ind. 38499 | Highways | Turquoise | Blue | Book | Indian | Jewelry | Digest | from | Arizona | Highways | Collectors | Series

In upper right corner $3.75. Wrapper title. P.3: "Published by Arizona Highways... Phoenix, Arizona Copyright... 1975 by Arizona Department of Transportation... Edited and Designed by Joseph Stacey..."

Centerstapled: 95, [1]p; front wrap silver & blue & red lett and 2 col photos; col photo of painting on back cover. Many col & b&w ills. P.size 30.6 x 23 cm(12 x 9 in). Cut. Also in hard-covers, contents centersewn, 29.8 x 21.8 cm(11 3/4 x 8 5/8 in). Cut. $7.50. JSL

Contents: 12 articles on Indian jewelry made from silver, turquoise, shell, coral and other materials. Many types of turquoise shown on high quality illustrations; the mineral is discussed in several of the articles; mostly of value for its illustrations.

205. ARKANSAS DIAMOND COMPANY

A Brief Account | of the | Discovery And Investigation | and the | Official Reports | [double rule] | of | Geologist And Mining Engineer | on the occurrence of | [box enclosing remaining title:] Diamonds | [three rules] In [three rules] | Arkansas | [cluster of three acorns, with leaves]

Entire cover title enclosed in single-rule frame, surmounted by a heavy rule pediment.

P [4]: "Copyright, 1908 | S.W. Reyburn, Trustee" Published by the company at 204 Louisiana St., Little Rock, Arkansas.

Centerstapled: 37, [2], [1 blank]p, tipped-in f between p 8-9, entitled "Subscription Agreement" recto, verso blank; sketch map. Heavy white printed wrap, cover title, other surfaces blank. 23 x 15.3 cm (9 x 6 in), cut. JSL; Harvard; LC 9-295.

Cont: company organization; print data; text title; copyright data; statement of original investors; subscript agreement; rept of John T Fuller(p 9-29, with sketch map); rept of Henry S Washington(p30-37); tab cont; blank p.

First(?) prospectus to establish a diamond mining company upon the Murfreesboro pipe deposit, Pike County, Arkansas. Most space taken by Fuller's report who describes geography, transport & communications facilities, local geology, pipe geology, details on the diamondiferous area, history of same, property and title, operations and results, the diamonds, and including a report from Washington with, however, the latter also furnishing a separate report in which he discusses the deposit. Fuller's report is of great historical value because of its specific data on results and costs of mining which are designed to encourage investment. Rare.

206. -----1910

Interesting | Facts | Diamonds and | Diamond Mining | [orn] | Comparison of the South African Mines | with the Mines of Pike County, Arkansas | [orn] | Published by | Arkansas Diamond Company | Little Rock, Arkansas | Mines near Murfreesboro | Pike County, Arkansas [Title in dark orange & black. Wrap date: 1910]

At top: white silk cord tie: [1], 12 f(text one side only). Orn init. 17.2 x 12.1 cm(6 3/4 x 4 3/4 in). Heavy, tan wrap; te of back wrap bent inward to enclose text; cover with title & red-orange decoration. Loose sheets. USGS Kunz Coll, GS 34-529.

Cont: title; text.

Enthusiastic advertising brochure describing enormous profits of South African diamond mines and comparing the geology of that region to the diamond field in Arkansas; cites authorities who claim such similarities; suggests that due to the large size of the field large profits may be realized by shareholders.

ARLENSIS, PETRI or PETRUS, see LEONARDUS, CAMILLUS, 1610, 1717, and PETRUS ARLENSIS DE SCUDALUPIS

207. ARMSTRONG, E C R Catalogue of finger rings in the collection of the Royal Irish Academy... Dublin, 1914, 44 p, 2 pls, figs. "Guides - National Museum of Science and Art, Dublin." Not seen.

ARNAUD, F, see DE LA CHAU, G M

ARNETH, JOSEPH CALZANSA, or CALASANA, Ritter von (1791-1836)

B Leopoldschlag, Austria; educ Linz & Vienna; in early career assoc with Imper Numismatic & Antiquities Cabinet in Vienna, rising to Director in 1840; prof numismatics & archeology U Vienna.

208. ----- 1849

Die | Antiken Cameen | des K.K. Münz- Und Antiken-Cabinettes | in | Wien. | [orn rule] | Beschrieben | von | Joseph Arneth, | k.k. Regierungsrathe, Director des k.k. Münz- und Antiken-Cabinettes, wie auch der k.k. Ambraser Sammlung, | ...[9 more lines of positions, etc.]. .. | [rule] | Mit XXV Kupfertafeln. | [rule] | Wien, 1849. | Gedruckt bei Leop. Sommer (vormals Strauss). | K.K. Hofbuchdrucker.

In the series: "Monumente des K.K. Münz- Und Antiken--Cabinettes in Wien. Beschrieben von Joseph Arneth."

2°: IV, XII, 44, [4]p + 2 index pls + 23 pls of gems and other objects, all with tissues, bound-in, on very heavy paper. Pale green paper over bds, elaborate frame both covers enclosing title on front & printer on back. Pale yellow endp. 51 x 33.5 cm(20 x 13 1/8 in). Cut. JSL.

Cont: ser tp; fwd; tp; subtp; Pliny quote; dedic; fwd; introd; descriptions; tab cont; indexes of names & subjects on the gems; pls.

First of 3 vols eventually published to depict & describe outstanding objects in the collection. The first foreword gives the 9 categories to be treated, including engraved gems, goldsmith's and silversmith's works, statues, vessels, ancient inscriptions, the Egyptian collection, and coins and medals. The present work is in three groups: antique cameos, antique intaglios, and cinquecento to modern engraved gems. The first two plates, separately numbered, provide an overview of the largest and most important specimens in the collection but engraved in reduced scale, while the remainder, numbered I.-XXIII., show the same gems in full size, including several very large cameos for which this collection is famed, eg, Augustine's triumph, the Roman Eagle gem, and others. These are shown on the first two plates while the lesser gems appear in groups on the succeeding plates. Plates XXI.-XXIII. depict small busts, jewelry, and vessels.

In his preface, Arneth laments the difficulty in finding artists skilled enough to reproduce the gems faithfully, especially when one views the magnificent engravings of Eckhel's *Choix des pierres*, 1788, (which see), in which a number of the same gems are depicted. However, as Vinet(No 1658) points out, Arneth succeeded in obtaining faithful reproductions even though the style of art differed. In his introduction, Arneth provides us with a short but useful essay on Greek art, the history of the gem-engraver's art, stones used, uses of the gems, eminent engravers of antiquity, major collections, and the largest known engraved gems and the collections in which they are preserved. A highly esteemed and now very scarce work. Goodland, p 20.

209. -----1858 Die cinque-cento-Cameen und Arbeiten des Benvenuto Cellini und seiner Zeitgenossen im k.k. Münz- und Antiken-Cabinette in Wien. Wien, 1858. 2°: x, 132, [2]p; 23 pls. Not seen; from a bookseller's catalog, 1973.

ARNOBIO, CLEANDRE, see ARDENTE ETEREO

ARNOLD, CHESTER ARTHUR(1901-)

B Leeton, Missouri; PhD Cornell U 1929; prof botany U Mich, Ann Arbor; wrote numerous publs on paleobotany.

210. -----1945 Silicified plant remains from the Mesozoic and Tertiary of western North America. I. Ferns. *Papers, Mich Acad Science, Arts, & Lett*, vol 30, 1944, publ 1945. Offprint: edge-stapled, 34 p, 11 photo pls, pale blue print wrap. 23.6 x 15.6 cm(9 1/4 x 6 1/8 in). Cut.JSL. USGS Libr.

Describes silicified woods much used by lapidaries as the *Osmundites* of Central Oregon, a tree fern from Texas, and the *Tempskya Corda* of Greenhorn, Oregon, the last being "attractively colored and is eagerly sought by amateur collectors as an inexpensive gem stone." Many excellent thin-section photos helpful in identification of tree species.

ARNOLD, *Sir* EDWIN(1832-1904)

Engl poet & journalist; MA Oxford 1856; Principal, Deccan Coll, Bombay 1856-61; ed *Daily Telegraph* 1873.

211. -----1887

Lotus And Jewel | Containing | "In An Indian Temple," | "A Casket Of Gems," | "A Queen's Revenge." | With Other Poems. | By Edwin Arnold, C.S.I., | Author Of "The Light Of Asia," "Pearls Of The Faith," "Indian Idylls," | "The Song Celestial," "The Secret Of Death," "Poems," | "India Revisited." | Boston: | Roberts Brothers. | 1887.

8°: blank f + [2 blank], vi, 263, [1 blank]p + [3], [1 blank]p (other works of publ) + blank f. Olive-yellow cloth, gilt spine title with rules & orns; large circ orn front cover ctr. Floral endp in tan & yellowish-olive. 17.5 x 11.9 cm(6 7/8 x 4 5/8 in). Cut. LC 12-30377.

Cont: 2 blank f; 1/2tp; tp; publ data; tab cont; text tp; text; blank p.; publ adverts; blank f.

Four part text: "The Casket Of Gems," p 51-159, providing poetry chiefly of interest for an alphabetical arrangement of gemstones such that the initals spell "Fanny," "Maria," and "Adelaide," but in order to make this scheme workable, Arnold was forced to dip into a bag of rather obscure terms as "yacut," "aureus," "ligure," "dawn-stone," and the last, the "sandastros," supposedly a stone from Yucatan! The remainder of the text does not concern gemstones.

212. ARNOLD, JULEAN HERBERT(1875-) The altar of the green jade pagoda [cover title same]. [Shanghai: Mercury Press, 1933(?)], 16 p, ills, 24 cm. Tied with red silk cord. Green & cream paper, with line drawings of the pagoda. Not seen: above from Born p 65. A brochure describing jade exhibited at the Century of Progress Exposition, Chicago.

ARNOLDUS SAXO or ARNOLD OF SAXONY, see ROSE, V, 1875

ARPE, PETER FRIEDRICH(1682-1740)

B Kiel, Ger; prof law in Kiel 1717-22; author of several notable works on religion and history.

213. -----1717

Petr. Frid. Arpe | De Prodigiosis | Naturae et Artis | Operibus | Talismanes | Et | Amuleta | Dictis | Cum Recensione Scriptorum | Huius Argumenti | Liber Singularis. | [engrav rect vignette: Father Time, with scythe, a winged cupid, etc.] | Hamburgi, | Apud Christian. Liebezeit. | 1717. [title in red & black]

8°: [4]f(includes front engrav pl) + 184 p + [8]f; pi^4, A-L^8, M^4, N^8. Front engrav pl shows 3 figures in foreground at a table, others in back near a building and pointing to a cloud on which appears "In Hoc Signe Vinces" surrounding a cross. Ch orns, inits. 16.9 x 10.2 cm(6 5.8 x 4 in). Cut. LC 11-9024(p size 18 cm); JSL.

Cont: pl; tp; dedic; pref; 6 ch; tab cont; indexes of authors & subj.

Systematically comments upon and criticizes numerous works written on the subject of talismans and amulets. Treats development and antiquity of talismanic arts, including remarks on names used in talismans and like articles in many lands, ancient writings on talismans,including Biblical and Egyptian sources, comments on published works of a considerable number of obscure authors(42 in all, p 90), the later writers from the Middle Ages onward, writers who dealt with the materials used in talismans, that is, minerals, metals, and vegetable substances, and, last, the affinities of talismans. The entire text is liberally studded with references to previous writings and is mute evidence of the enormous amount of research undertaken by Arpe. Goodland, p 21.

214. -----1792, German edit

Geschichte | der | Talismannischen Kunst | von | Ihrem Ursprunge, Fortgange und Verbreitung. | [orn rule] | Ein Beitrag | zu den geheimen und höheren Kenntnissen | der Menschen. | [rule] | tentare licet, | an, et quid valeant humeri, quid ferre recusent. | Horat. De Art. Pret. L. II. Ep 3. | [rule] | Germanien, im Jahr 1792.

8°: [4], 204 p; pi^2, A-M^8 N^6. 17.2 x 10.1 cm(6 3/4 x 4 in). Cropped. GS 33-278, Kunz Coll.

Above is anonymous, but Arpe verified as author in Holzmann's *Deutsches Anonymen-Lexikon, 1501-1850*. H Fischer, *Nephrit und Jadeit*, 2 edit, 1880, p 116-8, discusses this work at length, esp in connection with jade used in talismans and amulets.

ARPHE DE VILLAFANE, IOAN, or ARFE Y VILLAFAÑE, JUAN DE (1524?-1595?)

B Léon ca 1524; son of Antonio De Arphe, a celebrated artisan in precious metals; stud anatomy in Salamanca, fine arts in Toledo; after apprenticeship in father's goldsmithy, establ own workshop in Valladolid; apptd assayer, royal mints in Madrid & Segovia. Some authorities assign 1595 as death year in Madrid but in view of the second edit appearing in 1598, the latter date may be more likely. See biogr & bibliogr of Arphe in Maffei & Figueroa, 1871, vol 1, p 43 ff, and reprint of the Arphe first edit below. Darmstaedter, p 89. Both the first(1572) and second (Madrid, 1598) edits described(without pag) in G F DeBure, *Bibliogr. Instruct*, etc Paris, 1764, p 187-8. Agassiz I, 144.

215. ----1572, first edit

Qvilatador | De La Plata, Oro, Y Piedras, | Compvesto Por Ioan Arphe | de Villafañe: natural de Leõ: vezino de Valladolid. | [large, circ woodcut vignette, 11 cm, showing central shield, emblazoned, surmounted by papal and royal crowns, supported by two graces] | [para sign] Impresso en Valladolid, por Alonso y Diego Fernãdez de Cor- | doua, Impressores de su Magestad. Año M.D.LXXII. | Con Privillegio.

8°: [4], 71, [1]f, f 41 misnumb, f 59 misnumb "53;" ¶^{4}, A-I^8; 41 text woodcuts, many of cut gems and weights; orn inits. 18.7 x 14 cm (7 3/8 x 5 1/2 in). Thin, translucent paper such that opposite lett shows through. JSL.

Cont: tp; license; dedic; sonnet; pref; text in 3 books; index(with actual signature of the author at foot of f[7] verso).

Early, much respected treatise written for the edification of apprentices, goldsmiths, and jewelers as well as those interested in precious metals and cut gems generally. The first two books describe methods of assaying, purifying, and alloying silver and gold, with several quaint woodcuts of a balance, weights, receptacles, smelting furnace, etc. The ratios of precious to base metals are carefully tabulated and explained, also the marks that must be used to signify purity, the use of the touchstone and alloy points, and other information deemed essential to the successful and legal use of the precious metals. For the gemologist, however, it is the last book that is of great importance because it contains some of the earliest reliable, detailed information on weighing, sizing, and valuing precious gems. Treated: diamond, ruby, emerald, spinel, balas (spinel), sapphire, emerald of Brazil(probably green tourmaline), topaz, jacinth(zircon), amethyst(sapphire in part), chrysolite, sardonyx, garnet, rock crystal, pearl, turquoise, agate, coral, "cornerina," bezoar, "litropia," prase, amber, niccolo agate, jasper, and chalcedony. All are described and some discussed in terms of sources, types, and magical and medicinal virtues. More important, however, most of the gems are compared in terms of value and to other standard gemstones of top rank. An excellent feature is the insertion in the text of numerous small cuts of faceted gems of specified sizes so that visual estimates of weight can be made. Numerous tables give gemstones, weights in "quilates," and values in Spanish reales. It is this book that Lenzen, *Qualitätsmerkmale des Diamanten*, 1966(which see) claims as the first printed appearance of the "square of the weight" rule for pricing cut diamonds. This rule was later repeated by Tavernier in his *Travels*(which see), and probably due to the scarcity of the present work and the wide publicity given to Tavernier's book, it came to be called the "Tavernier rule." Under pearl, in which is depicted a diameter gauge, a similar pricing rule is observed. Very rare.

216. -----1976, reprint of 1st edit, with commentary

Coleccion | Primeras Ediciones | 5 | Juan De Arfe Y Villafañe | Qvilatador | De La Plata, Oro | Y Piedras | Ministerio De Educacion Y Ciencia | Direccion General Del Patrimonio Artistico | Y Cultural [Madrid: Servicio de Publicaciones del Ministerio de Educación y Ciencia, 1976. [Title in elaborate antique woodcut frame.]

8°: 24 p + [76]f + [1], [1 blank]p; 5 fig + those reproduced in text. Pale tan heavy paper inner wrap, enclosed in heavy pale tan parchment paper outer wrap, title on cover, series no on spine; flaps fold inward. 21.4 x 15.5 cm(8 1/2 x 6 1/8

in). Cut. Sp p 500. ISBN 84-369-0465-6; Dep legal M.975-1976. JSL.

Cont: 1/2tp; tp; publ data; source of copy; portr of Arphe; essay on him & his work; edits of his works; fragmented edits; refs; works of his father; facsimile; other books in the series; blank p.

Prefaced by life & works, the main text provides a good facsimile of the first edition from the Royal Library of Spain and compares it with a copy in the Spanish National Library. Commentary by Antonio Bonet Correa but failing to mention extensive descriptions in Maffei & Figueroa, 1871(which see).

217. -----1598, 2nd edit

Qvilatador | De La Plata, Oro Y Pie- | dras, conforme a las leyes Reales, y | para declaracion de ellas | [rect vignette, coat of arms, at bottom a turkey & elephant] | Hecho Por Ioan De | Arphe Villafañe natural de Leon, Esculptor | de oro y plata, Ensayador mayor de la mo- | neda, en la Real y antigua casa | de Segouia. | Dirigido a la C.R.M. del Rey D. Philipe. Tercero. | nuestra Señor. | Impresso en Madrid, en casa de Gui- | llermo Drouy, Año. 1598.

Not seen: title from a photo in the previous entry and compared to the entry in Maffei & Figueroa.

8°: 16, 244 f. A complete list of contents in Maffei & Figueroa who note that this edition is considerably less rare than the first, but nevertheless much esteemed. Enlarged, now containing 5 books, the last again being confined to gems, pearls, and with a part on the virtues of gems. Maffei & Figueroa also noted that Pinelo(tit XXI) cites another edition of 1674 in 4° which they have not seen, and doubt its existence. No mention of this edition is made in the facsimile edition above.

218. -----1678, 3rd edit

Qvilatador | De Oro, Plata, | Y Piedras. | Compvesta Por Ivan De Arphe | y Villafañe, natural de Leon, Escultor de Oro, y | Plata, en las Casas Reales de la Moneda | de Segovia. | Dedicado A Don Pedro De Pomar, del | Consejo de su Magestad, en el Real de Hazienda, Tallador Mayor per- | petuo por juro de heredad de las Reales Casa de Moneda de To- | ledo, Señor de Lugar de Miana, en el Reyno de | Aragon, &c. | Año [oval, framed woodcut portr of author] 1678. | Con privilegio: En Madrid. Por Antonio Francisco de Zafra, | Criado de su Magestad, en su Real Bolateria. | [rule] | A costa de Doña Maria del Ribero, viuda de Bernardo de Sierra, Mercadera de | Libros, Vendese en su casa en La Puerta del Sol, à la esquina de la inclusa.

4°: [16], 408 p; S^4, A-Z^4, Aa-Bb^4C^2; ills as before.

Cont: tp; dedic; errata; privileges; tab cont; text.

Above from xerographic copy in British Museum(Nat Hist) Mineral Library. Maffei & Figueroa, p 44-5, give "4°: 216 f," while Correa, in the facsimile of the first edition, p 19, gives after an abbreviated title "Antonio Francisco de Zafra. A costa de doña María de Ribero, 1678. 8 h., 408 p., xilografías, 4." Copies in Academia de la Historia, Madrid and in Libreria Nacional; Paris, Librarie Nationale.

219. ARSCHOT, PHILLIPPE D' Jades Archaïques De Chine Aux Musées Royaux D'Art et D'Histoire, Bruxelles, 1976, xlv, 234 pp, 35 text figs, 30 x 21 cm, paper. Not seen: from Han-Shan Tang, London, list 28, 1985: "extensive bibliography... documentation of 156 archaic jades ... Yang 1269."

220. ARRHENIUS, BIRGIT Zum symbolischem Sinn des Almandin im früheren Mittelalter. *Frühmittelalterliche Studien*, 3, 1969, p 47-59; not seen.

221. -----? Almandin und Almandinverzierung. *Reallexikon der Germanischen Altertumskunde*, 1(2 Auflage), p 174-81; not seen; from C Meier, p 541.

222. ARTAMONOV, V S, [Semi-precious stones in Northwestern RSFSR.] *Mater Geol Polezbym Iskopaemyn, Severo-Zapada RSFSR*, no 3, 1962, p 195-213. In Russian. Not seen: ref in *Min Abstr* 19, 3, 1968, 196. Amethyst, almandine, moonstone, sunstone on the Kola Peninsula and in Arkhangelsk region.

223. ARUNACHALAM, S

Annamali University Historical Series, No.8. | [rule] | The History Of The Pearl Fishery | of | The Tamil Coast | By | S. Arunachalam, M.Litt. | With A Foreword | By | Prof. R.Sathianathaier | [univ crest] | Annamali University, | Annamali Nagar | 1952 | [Price Rs. [sic, price unstated!]

4°: [3], ii, [1], 206, [1 blank], ii p. Pale blue paper over bds, dark blue cloth spine; title in double-rule frame in dark blue on cover. Tan- yellow dj; same title on cover; spine title. 21.3 x 13 cm(8 3/8 x 5 1/8 in). Cut. JSL.

Cont: tp; print data; fwd; pref; tab cont; introd; 9 chs; appends A & B; index;errata.

Thesis: "the result of... research for two years in the Annimali University." A remarkable and valuable work: delves into both native & foreign records from earliest periods to 1900 concerning pearl and the revered conch shell known as the chank; both were fished from waters off the southeast Indian Peninsula along the Tamil Coast and Gulf of Mannar. First chapter on earliest mentions of the fishery but notes that the information unreliable until appearance of Marco Polo's account, with an interesting discussion on beliefs of ancients concerning origin of the pearl. Remaining chapters continue exploration of records and travelers' accounts as well as scientific reports of the 19th century. Appendix A: role of the chank in Indian culture & religion; B: bibliogr, p 192-7, 65 entries. A treasure-trove of information, carefully footnoted and tied to references, including much material on lore and certainly the most complete study to appear on the subject of Indian pearl fishing although it does not compare scientifically with the works of Hornell and Thurston.

ARZRUNI, ANDREAS (1847-1898)

Native Tiflis, Caucasus; schooled in Ger; PhD U Strassburg & U Berlin 1877(mineralogy, petrography); custodian mineral mus U Berlin 1883; prof mineralogy U Breslau; from 1884 prof tech highsch Aachen; publ num scient articles. Pogg 4, 41-2.

224. -----1883 Neue Beobachtungen am Nephrit und Jadeit. Nach einem, am 17 Marz 1883 in der Berliner anthropologischen Gesellschaft gehaltenen Vortrage. Separate: *Zs f Ethnologie*, Berlin, Jg 15, 1883, 163-90. JSL.

Examines arguments in the "jade question," ie, "are jade artifacts found in numerous places around the world referrable to a common source?" Arzruni points out that existing petrographical techniques are available to examine the fine structure of nephrites and jadeites and thus establish similarities or

differences. He collected specimens from many widely-separated localities, examined them, and determined that while some specimens from certain areas appeared to be derived from a common deposit, no evidence was found for a deposit common to all. Specimen descriptions furnished, from what institutions obtained, original sources, results of investigations. Conclusion: the "common source" theory is untenable.

225. -----1892. Nephrit von Schahidulla-Chodja im Küen-Lün-Gebirge. *Zs f Ethnologie*, 24, 1892, 19-33. Describes nephrites from K'un Lun Mts of China; details on structure & mineralogy as found in thin-sections and with chemical analyses. Yang 1088. JSL.

ARZRUNI, A, see SCHNEIDER, O & ARZRUNI, A

ASCHENGREEN-PIACENTI, K, see STEINGRÄBER, E, 1968

226. ASH, SIDNEY R & MAY, DAVID D

Petrified Forest | The Story Behind The Scenery | by Sidney R. Ash and David D. May | ... [9 lines] ... | Petrified Forest - The Story Behind The Scenery, Published By Petrified Forest Museum Association, Petrified Forest | National Park, Holbrook, Arizona 86025. One Dollar. L.C. No. 70-91438. © 1969 Petrified Forest Museum Association.

Centerstapled: 32 p; 33 col photos(includes inside covers), 4 sketches. Heavy col wrap, tan title on cover. 30.5 x 22.9 cm(12 x 9 in). JSL. Geology, formations, historical geology, paleobotany, fossils, advent of man, history of park and its establishment, suggested reading(p 25, 7 entries). Handsome production; the highly colorful material of the trees is a favorite lapidary material.

ASHBEE, C R, see CELLINI, B

227. ASHTON, LEIGH, *Editor*

Chinese Art | [14 lines listing contribs] | [publ monogr] | London | Kegan Paul, Trench, Trubner & Co. Ltd. | Broadway House: Carter Lane, London, E.C. | 1935

8°:xvi, 111, [1]p; 24 glossy photo pls. Bright yellow cloth, red lett spine; bright yellow dj, red lett. 18.5 x 12.2 cm(7 1/4 x 4 3/4 in). Cut. Cloth 3s 6d net; paper 2s 6d net, the latter same size in bright yellow wrap. JSL.

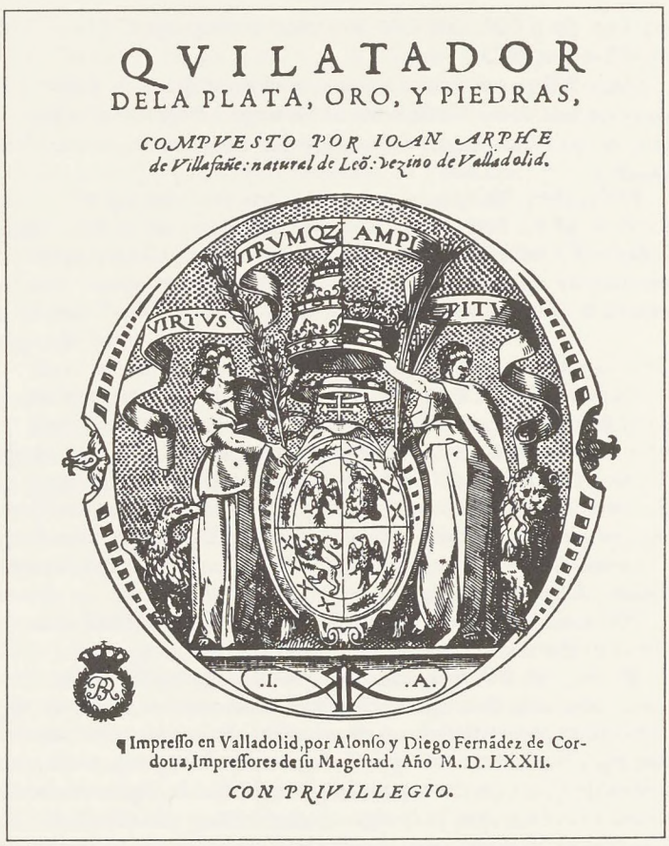
A broad survey: Laurence Binyon painting & calligraphy; Ashton sculpture & lacquer; R L Hobson ceramics; A J Koop bronzes & cloisonne; Una Pope-Hennessy jade(p 86-102, Pls XX-XXIII); Ashton textiles. Provides succinct review of jade carving from antiquity to present, notes stylistic features and trends, deplores much work of Ch'ien Lung period as "frivolous, pretty, and senseless."

ASSCHER, A, see AMSTERDAM DIAMOND INDUSTRY

228. ASSCHER, JOSEPH, & CIE

"The Cullinan" | Joseph Asscher & Cie [Title from cover, the only place appearing. Publ in Amsterdam by the company, ca 1908]

2°, oblong: [1]f (index to pls) + XV f, each bearing a photo. Dark maroon cloth, gold title on cover only; "Art Nouveau"


QVILATADOR
DELA PLATA, ORO, Y PIEDRAS,
COMPVESTO POR IOAN ARPHE
de Villafañe: natural de Leõ: vezino de Valladolid.
VIRVMQZ AMPL
VIRTVS
PITV
.I.
.A.
¶ Impreſſo en Valladolid, por Alonſo y Diego Fernãdez de Cordoua, Impreſſores de ſu Mageſtad. Año M. D. LXXII.
CON PRIVILLEGIO.

215. Titlepage to Arphe De Villfane's Quilatadoror jeweler's handbook of gem values and standards, published in Spain in 1572

design on basic tan endp. 26.3 x 34.6 cm(10 3/8 x 13 5/8 in). Cut. Aeg.

Published for presentation only. The index leaf, considerably smaller than the others, is printed in Spencerian type-font simulating handwriting. All pls mounted on stiff paper, hinged with cloth to stubs.

The company was entrusted with the cleaving and cutting of the Cullinan diamond crystal, the largest ever found, in order to furnish very large faceted gems for the English Crown Jewels. The photographs, often reproduced in other gemological books, show cleavage sections in the first four plates, a plate showing the cleavage bench and one of the Asschers poised in the act of grooving and cleaving, followed by another four photographs that show the various gems in preliminary blocked-out shapes and in finished forms. The remainder show firm members examining one of the gems, the cutting shop, and the enormously large dop used to hold the gems while cutting, the storage vault, the front of the Asscher building, and a panorama of the entire factory. This is the sole authentic photographic record of the cutting of the Cullinan. Rare.

229. -----1928

Asscher's | Diamond Works | [orn] | Amsterdam - Paris - Versailles | [rule] | MCMXXVIII

8°: [2 blank], [27], [1 blank], [1], [1 blank]p; portr of I.J. Asscher(1843-1902) + 21 text photos; orn inits, ch orns. Tan printed wrap, dark blue title on cover, pale orange orn. Glossy

cream paper. 22.4 x 17.3 cm(8 7/8 x 6 7/8 in). Cut. Wrap overlaps text. Consists of 2 sewn sigs cemented to wrap. JSL.

Cont: blank f; 1/2tp; portr & quote; tp; text; blank p; print data; blank p.

Attractive, well-written brochure: principles & steps in diamond cutting; cleaving & cutting the Excelsior; same for the Cullinan but in more detail. Many photos of factory, interior views, personnel, visitors, diamond cutting, Excelsior rough(cut in 1903), personnel responsible for cutting the Cullinan gems along with photos of cleaving, cleavage pieces, rough cuts, and finished gems. Important historical data.

ASSCHER, L, see LEGRAND, J

ASSCHER, S (1907-)

B Amsterdam; studied Rijksacademie van Beeldende Kunsten 1931-5; interior decorator 1932-58; apptd director Amsterdamse Diamant Maatschappij B.V. in 1956.

230. -----1975

Diamant | wonderlijk kristal | [rule] | S. Asscher | Fibula-Van Dishoeck [Bussum, Netherlands: Unieboek B.V., 1975]

8°: 164 p; ca 95 ills. Blue, unfinished cloth; gold spine title. Col dj, col photos on front + title; 2 photos of cut diamonds on back, resume, vita. 24.5 x 17.6 cm(9 5/8 x 7 in). Cut. ISBN 90 228 4040 9. JSL.

Cont:1/2tp & dedic; front ill; tp; publ data; tab cont; ill; fwd; introd; gloss; 8 chs; notes; biblio(p 159-60, 30 entries) + ackn; index.

Popular treatise written by a member of the famous diamond-cutting family in The Netherlands. Provides a history of the diamond, beginning with first likely use of diamond In China and tracing development of knowledge & trade via India into modern times. This chapter illustrated from older works as Tavernier's *Travels*. Other chapters describe natural history & properties, cutting & grading, valuation, industrials, organization and operation of the industry, famous diamonds, and a chapter of biographical notes on the "giants" of the diamond industry, eg, A Asscher, J Asscher, E Oppenheimer, H Polak, C J Rhodes and J A Van Zutphen. The general information on the diamond is not remarkable but where the author speaks of matters better known to himself, namely, cutting, classification of stones, trade organization, labor problems, organization of cutters in Holland, etc, the subject matter becomes authoritative and important. Rev G Lenzen, *Zs Dt Gemm Ges*, 24, 4, 1975, 257, "first such monograph in the Dutch language."

ASTOR, WILLIAM WALDORF (1848-1919)

Great grandson of John Jacob Astor(1763-1848); Brit financier, journalist, 1st Viscount Astor; b NYC; U S Minister to Rome 1882-5; to Engl 1890, became Brit subject 1899; proprietor *Pall Mall Mag* and *Pall Mall Gazette*.

231. -----1893

Notes Upon The | Owners | Of | The 'Sancy' Diamond | Collected | By | William Waldorf Astor | London | 1893 [privately publ, no printer given]

4° bound in 3's: [1 blank]f + [l8]f; lett recto only. Pale turquoise cloth, gold title upper left corner of cover; pale yellow glossy endp. Handmade paper, watermarked. 26 .4 x 21.8 cm(10 3/8 x 8 1/2 in). Cut. JSL.

Cont: blank f; tp; text; biblio on last f, 7 entries.

Ownership traced from Charles the Bold(1433-1477) to Mary Astor, each owner accorded a paragraph on one of the leaves, with an attractive initial. On the death of Mary Astor, the Sancy was purchased by the author for his wife in 1892. There is no hint of the number of copies of this brochure that were issued but it could not have been many and the work is rare. This may account, in part, for discrepancies or omissions in histories of the Sancy, eg, Copeland *Diamonds...*, 1974, p 106-9, which see, and which does not mention the present work.

232. ASTRE, GASTON

Les Livres Du Museum | [double rule] | Gaston Astre | Directeur du Museum d'Histoire Naturelle, | Chargé de cours à la Faculté des Sciences de Toulouse, | Maitre de recherches | au Centre national de la Recherche scientifique | [orn rule] | Les | Albatres | [orn] | [double rule] | Museum D'Histoire Naturelle De Toulouse [1948]

Vol 2 of the "Livres"

8°: 172, [1], [1 blank], [2]p, the front wrap included in pag; 2 text figs, 7 photos on 3 glossy tip-in pls. Pale gray wrap, cover title; advert inside front cover. 18.2 x 11.3 cm(7 1/8 x 4 1/2 in). Cropped. BMNH.

Cont: front wrap; 1/2tp; tp; introd; 7 chs; conclusions; ill list; tab cont; advert; publ data.

On the alabasters used as ornamental and gem materials: origin of the name and its application to several similar appearing minerals, properties and features of the calcareous and gypsiferous types, nomenclature, uses, sources, and also data on massive fluorite used in ornamental objects. Plates show magnified structural details of alabasters as well as several hand specimens. A useful summary. Scarce.

233. ATHERSTONE, WILLIAM GUYBON(1814-) The discovery of diamonds at the Cape Of Good Hope. *The Geol Mag*, London, 6, 1869, 208-13. Feeling that remarks of J R Gregory in the same journal, vol 5, 1868, p 558-60(which see) damaged his reputation by implying that the diamonds reported by Atherstone could not have occurred as stated, the latter provides a rebuttal and later wrote more extensively on his experiences(see below).

234. -----1871 My trip to the diamond-fields. *Cape Monthly Mag*, ns, 2, 1871, 243-7, 284-93, 360-7. Three instalments: I. The Start, II. On to the Vaal, and III. At the River Diggings. Describes the "rush" excitement, with much local color on alluvial diamond digging in the Vaal River valley. In the last instalment, Atherstone notes certain igneous dikes and speculates as to their role in bringing up diamonds from the depths and concentrating them in the alluvials. For more detail on Atherstone and his accounts of diamond discoveries and predictions which aroused considerable controversy, see A F Williams *Some Dreams Come True*, p 61-71, passim.

235. ATHOL, WEBSTER K The Armytage Collection of Maori jade. Photography by John Queensborough, A.R.P.S. London: The Cable Press. Rev *J Gemm* 2, 6, 1950, 234-5, a "slim, illustrated monograph," no pagination given. Not seen.

236. ATKINSON, DAVID & KOTHAVALA, RUSTAM Z Kaschmir-Saphir. *Lapis*, 10, 10, 1985, 11-21, maps, photos(col).

Transl by E Gübelin from same art publ in G & G 19, 2, 1983, 64-76, col photos & maps. Describes arduous visit to this formerly very important deposit of highest quality sapphires; remarks on travel, geography, geology, type deposits, pegmatites, mineralogy, etc.

ATKINSON, LEWIS, see SCOTT, ARTHUR

237. ATLAY, FRANK & MORGAN, ARTHUR H

The Burma Ruby Mines. [Title on wrap only; preface dtd Jun 1905].

Oblong edgestapled pamphlet: [10]f letterpress; front is part-tinted map of ruby-bearing area + 6 fullp photo pls, 3 text photos. With fold col geol map of Mogok gemstone tract, 53.5 x 42.5 cm(21 x 17 in). Thick dark red wrap. 21.2 x 28.4 cm(8 3/8 x 11 1.8 in). Cut.

Handsome and valuable advertising brochure: history of ruby mining in Burma from antiquity to present; acquisition of mining rights by The Burma Ruby Mines, Ltd, headquartered in London; description of the tract, methods of mining, processing, recovery, sales, engineering problems, native miners, and plans for future exploitation.

238. ATSAGORTSYAN, Z A & MARTIROSYAN, O A

Z.A. Atsagortsyan, O.A. Martirosyan | Tufy | Mramory | Armenii | [orn] | [orn rule] | Erevan · Armgosuzdat · 1962 [title in pale sepia & black]

At head of title, to left: Gosstroi Armyanskoi SSR | Armyanskii Nauchno-Issledovatelskii | Institut Stroimaterialov | Sooruzhenii [to right:] Sovnarkhoz Armyanskoi SSR | Nauchno-Issledovatelskii Institut Kamnya | I Silikatov | [double rule]

8°: 157, [2], [1 blank]p; 60 col photos on 38 glossy tip-ins; 12 figs, 105 tabs; fold sketch map. Green cloth, col photo inset in rect panel on front cover + gold lett; gold lett & rules on spine. 28.8x 21.7 cm(11 3/8 x 8 1/2 in). Cut. Price 1 r-75k. Press run 1500. JSL.

Cont: tp; publ data; pref; text; occurrences index + fold map; biblio(p 152-4, 51 entries); tab cont; publ data + errata slip.

Volcanic tuffs, marbles, calcite onyxes of the Armenian SSR suitable for architectural and ornamental purposes. Describes deposits, types of material, petrography(sometimes with small thin-section ills of nearly useless quality); color plates generally poor, show samples of stones but also some structures made from them.

239. AUBERT DE LA RÜE, EDGAR

Pierres Précieuses | Et | Pierres d'Ornementation | Caractères, Gisements, Usages | Par | Edgar Aubert De La Rüe | Ingénieur-Géologue | [rule] | 109 figures | [rule] | [publ monogr] | Paul Lechevalier | Éditeur | 12, Rue De Tournon, 12 | Paris-VIe | [rule] | 1928

P[1]: "Encyclopédie Pratique Du Naturaliste XI"

8°: 301, [1 blank], [1], [1 blank]p; yellow-tinted glossy photo front pl(quartz crystal) bound-in + 109 figs(sketches of actual specimens & crystal drawings). Pale gray(streaked with lighter gray) cloth, quartz crystal group & lett in black on cover; black lett & rules on spine. 15.4 x 11.4 cm(6 1/8 x 4 1/2 in). Cut. Paper browned, embrittled. GS 34-398; JSL.

Cont: series tp; other bks in ser; pl; tp; other bks in ser(cont); pref; biblio(p 9-10, 49 entries); abbrev; tab cont; 22 chs; index & synonomy; blank p; publ data; blank p.

Handy, concise, accurate handbook achieving much popularity in France. First part (6 chs): crystallography, properties, composition, deposits, and "generalities" in the last ch, ie, history of gems, flaws in gems, carat weight, lapidary work. Second part(16 chs): entirely descriptive, treating gemstones according to chemical groupings, eg "family of carbon," ie, diamond, jet & amber, "family of silicates," and so on. This arrangement is perhaps not as well thought out as it could be but has the virtue of bringing together numerous gemstones that are related by some important feature. Each description gives properties, composition, tests, deposits, and uses. Thorough coverage only for major species & varieties. While the book is small, its content is large due to use of small type size. Rather crudely drawn but realistic and intriguing pen & ink sketches enliven the text.

240. AUDLEY, JAMES A

Silica And The | Silicates | By | James A. Audley, B.Sc. Lond., F.I.C. | Ceramic Chemist | [publ logo] | New York | D. Van Nostrand Company | Eight Warren Street | 1921

8°: xiv, 274p + [1]p adverts; 27 figs. Cloth. 21.3 x 13.8 cm(8 3/8 x 5 1/2 in). Cut. $4.50.

Surveys silica and the silicates; includes scattered remarks on quartz and its gem varieties, opal, serpentine, meerschaum, lapis-lazuli, garnets, idocrase, topaz, beryl, obsidian, and strass or imitation gems made from glass.

241. AUERBAKH, A O turmaline russkikh mestorozhdenii. *Gornyi Zhurnal*, 1868, ch 3, 395-443. Not seen.

AUFFRICHTIGE JUVELIER, DER

By an unknown Ger author who was familiar with Jeffries *Treatise On Diamonds*, which see, and incorporated a translation of same in the below work.

242. -----1729, 1st edit(?)

Der auffrichtige Juvelier, welcher eine kurtze doch zulängliche Anweisung, wie man die vornehmsten Edelgesteine, darunter ins besondere die vor andern in die menschliche Augen strahlende Diamanten wie auch die Hertzen reitzinde Perlen, und mehr andere zu dem Schmuck der Menschen gebrauchende Wercke der Natur und Kunst recht erkennen, nach ihrem wahren Werth schätzen, allen dabey unterlauffenden Betrug entdecken lernen, und sich vor Schaden hüten könne, getreulich mitgetheilt. Franckfurth am Mayn, Bey Wolffgang Christoph Multzen, 1729.

17p, 1., 115, [1]p. fold. plate, tables. 17 cm. Not seen, from no 59, Hoover Coll, 1980, p 20. Gatterer II, 17. Leonhard et al, *Propadeutik* p 270, no 225(given as 8°). Contents described below.

243. -----1763, zweyte Auflage

Der aufrichtige | Jubelier, | Welcher eine kurze, doch zulängliche Anweisung, | wie man die fürnehmsten | Edelgesteine, | Darunter ins besondere die vor andern | in die menschliche Augen strahlende Diamanten u. Perlen, | Wie auch andere mehr | zu dem Schmuck der Menschen | gebrauchende | Werke der Natur und Kunst, | recht erkennen, | Nach ihrem wahren Werth schätzen, | allen dabey unterlaufenden Betrug entdecken | lernen, und sich vor Schaden hüten könne, | getreulich mitget-

heilt. | [rule] | Zweyte Auflage. | [rule] | Frankfurt am Mayn, | Bey Johann August Raspe, | 1763.

128 p, tables, 17 cm; not seen, above from bookseller's photo in catalog. Hoover, 1980, p 20, no 60.

244. -----1772

Der aufrichtige | Jubilerer | oder | vollkommene | Anweisung | alle Arten | Edelgesteine, Diamanten | und | Perlen | recht zu erkennen, ihren wahren Werth zu schätzen, | die rechte Art sie zu schneiden gezeiget, und | allen dabey vorfallenden Betrug | entdecken zu lernen. | Nebst einer aus dem Englischen | Übersetzten | Abhandlung | von | Diamanten und Perlen. | [orn rule] | Frankfurt am Mayn | bey Johann Joachim Kessler, | 1772.

8°: [16], 226, 24, [4], [2 blank]p, $*^8$, A-Q^8; 10 engrav pls bound in at end. 18.5x 11.5 cm(7 1/4 x 4 1/2 in). Uncut copy in binder's bds. JSL.

Cont: tp; pref; tab cont; biblio(p 16, 20 entries); 12 chs; tabs; index; blank f; pls.

This, and its predecessor editions, is an authoritative and respected treatise on general gemology covering those aspects of greatest value to the practising jeweler and purveyor of gems. The author, unfortunately unknown, displays considerable accurate knowledge of gemstones which with the translation of Jeffries' *Treatise on Diamonds and Pearls*(which see), appended to the regular text, made this work the standard reference in German-speaking regions for many years. The preface discusses the system of weights in use, importance of ideal proportions in cut diamonds, both for realizing greatest brilliance and obtaining highest retail value; a similar caution is given for stones with flaws or other defects, Ch 1 briefly treats origin of gemstones, properties that make them prized, and important deposits. Ch 2, p 15-68, provides descriptions of gemstones in alphabetical order by species and variety, from agate to turquoise; it includes some stones of doubtful identity, eg, "thunderstone" and "dragonstone," also some ornamental stones and others that are not true gemstones as bezoar and touchstone. Ch 3 is on the diamond; chs 4-6 describe ruby, emerald and sapphire. Ch 7 treats the remaining gemstones in alphabetical order and in some areas repeats information given in Ch 2. Ch 8, very short, is on distinguishing falsifications or those that may be mistaken for more valuable look-alikes. Ch 9 concerns famous gems and estimated values, while Ch 10 discusses weights and values of pearls and pearl imitations. Ch 11, an important one, provides tables of prices for gems, which in the case of diamonds, uses the Tavernier rule for calculating value. The final chapter gives instructions and compounds that are useful for cleaning gems and pearls. The remaining text is a straightforward translation of Jeffries, probably plagiarized, inasmuch as there is no mention of it whatsoever.

245. -----1801, Frankfurt am Main reprint

Der | aufrichtige Juwelier | oder | vollkommne Anweisung | alle Arten | Edelsteine, Diamanten und Perlen | recht zu erkennen, ihren wahren Werth schätzen, | die rechte Art sie schneiden, und allen dabey | vorfallenden Betrug entdecken zu lernen. | Nebst einer | Aus dem Englischen übersetzten Abhandlung | von | Diamanten und Perlen. | [rule] | Mit Kupfern und Tabellen. | Orn rule] | Frankfurt am Mayn | bei Friedrich Esslinger 1801.

Reset tp; otherwise identical & printed from same plates. JSL copy, in modern binding, measures only 16 x 9.6 cm(6 1/4 x 4 3/4 in); obviously it is severely cropped.

246. AUFSCHLUSS, DER

Sonderheft zum 70. Geburtstag von Karl F. Chudoba | Edelsteine | 18. Sonderheft... | Schriftleitung: Marie-Theresa Mackowsky... Heidelberg 1968. Printed wrap: 142 p + [1 blank]f; 3 col text figs, 99 others(photos & sketches).

Many interesting & informative articles: on old lapidary books (Mackowsky), with extracts from Lonicer, Dutens, etc; history of lapidary technique development(W Fischer); atomic structure, properties, classification of gemstones(H Strunz); color causes(H Harder); Pakistan emerald(E J Gübelin); synthetic star sapphire(W F Eppler); citrine & citrine from amethyst(G Wild); and identification methods(H Bank).

AURIFABER, ANDREAS, *recte* ANDREAS GOLDSCHMIDT(1512-1559)

B Breslau; MD, prof U Königsberg. *Biogr Univ* 3, 87; Thomas p 215.

247. -----1551

Kurzer gründlicher Bericht, woher der Agtstein oder Börnstein komme, dass er kein Baumharz sey sondern ein Geschlecht des Bergwachs, und wie man jnen in Arzneyen möge gebrauchen. Königsberg: Lufft, 1551. 4° 46 ff.

Not seen. This excessively rare work on amber is briefly discussed by J F John, *Naturgeschichte des Succins*, 1816, 1, p 55, which see, in connection with the belief of Aurifaber (and others) that amber is not vegetable resin but some sort of petroleum residue. Cited by S H Scudder *Bibliogr Fossil Insects* p 59, who did not see the work but said that "Dr. Hagen informs me that it contains references to insects in amber, and is therefore one of the earliest works mentioning them," and "later editions were published in 1557 and 1572 in 4°, and rendered into Latin verse by Scholzius, in 1593 and 1671 in 8°." John mentions the same but notes that it was translated by "Scholtz. in consil. et epist. medicin. J.C. a Kraftheim. L. IV. edit. Francf. 1593. p.443-463." Gatterer II, 152; Hoover Catalog.

248. -----1572

Succini historia, ein kurtzer, gründlicher Bericht, woher der Agtstein oder Börnstein ursprunglich komme, das er kein Baumharz sey, sonder ein Geschlecht des Bergwachs, und wie man jnen manigfaltiglich in Arzneien möge gebrauchen. Gedruckt zu Königsperg bey Johann Daubmann. 1572.

Not seen; Agassiz I, 161, mentions edits of 1551, 1557, and 1572.

249. AUSTEN, R L

Gems | and Jewels | R L Austen | [publ logo] | Evans Brothers Limited London [1979]

8°: 128 p; 86 col photos, 15 b&w photos, 8 figs. Blue, cloth-type paper over bds; gold spine title & logo. Black dj, col photo of diamonds on cover; flap resume & vita. 24.9 x 22.1 cm(9 3/4 x 8 5/8 in). Cut. NK 7304; ISBN 0 237 44933 1. £10.50 net. JSL.

Cont: 1/2tp; tp; publ data; tab cont; introd; 12 chs; biblio(p 128, 13 entries) + ackn.

Informal, charmingly written account of gems and jewelry based on the author's 50 years in the business. Topics: history of jewels, optical properties, manufacture of jewelry, precious metals, major gemstones, lesser gemstones, pearl, ornamental stones, synthetics & imitations, care & safeguards with remarks on insurance and resale. Appropriate illustrations of good quality. Meager, unimportant bibliography. There are a number of serious errors, especially in connection with properties of certain gemstones, which should have been eliminated by a careful outside reviewer. Nevertheless, an easily readable and highly interesting book because of its personal anecdotes. Rev *J Gemm* 17, 3, 1980, 196; *Gems* 12, 1, 1980, 42.

250. AUSTIN, ARTHUR CECIL & MERCER, MARION

The Story Of | Diamonds | By | A.C. Austin |(Geol. E., The Colorado School of Mines) | And | Marion Mercer | (E.M., The Colorado School of Mines) | Prepared For The | Century Of Progress Committee | Of The | Chicago Jewelers' Association | With 125 Illustrations | Art Work by Percy Hale Lund | [star] | Copyright 1935, by the | Chicago Jewelers' Association | All Rights Reserved [title within 3-rule frame]

Centerstapled: 96 p, 125 photos, drawings, vignettes. Heavy, col wrap dec with lozenge-shape panels, many small drawings in openings; title with cut gem in white on cover. 20.4 x 14 cm(8 x 5 1/2 in). Cut. $.50. Press run 20,000. LC 35-5487. JSL.

Comprehensive, concise, accurate summary of most important data; it won instant approval and was reprinted & revised several times. Treats nature & properties, occurrence, deposit geology & mineralogy, mining, cutting, famous stones, industrials, important personages connected with the industry. Excellent, pertinent illustrations. Rev *R & M*, 10, 5, 1935, 77.

251. -----1939, GIA reprint

The Story Of | Diamonds | by |... [4 lines]... | With 125 Illustrations | Art Work by Percy Hale Lund | Published by the | Gemological Institute of America | 541 South Alexandria | Los Angeles [title in 3-rule frame] [1939]

Centerstapled: [2 blank], 96, [2 blank]p; 125 ills(photos, maps, sketches). Pale gray, heavy paper wrap, short title in framed box on cover in blue. 20.5 x 14 cm(8 1/8 x 5 1/2 in). Cut. JSL.

Changed front matter with statement of new printing history by GIA, else identical.

252. -----1941, rev reprint

The Story Of |... | Revised and Supplemented by | Robert M. Shipley | President Gemological Institute of America | With 112 Illustrations | Art Work by Percy Hale Lund | Published by the | Gemological Institute of America | United States and Canada | 541 South Alexandria | Los Angeles | Eastern Headquarters: 69 Newbury Street, Boston [title in 3-rule frame] [1941]

Centerstapled: [2 blank], 96, [2 blank]p, 112 figs. Pale gray, textured paper wrap, title in black in tapered rules on cover with small cut diamond. 20.8 x 14.3 cm(8 1/4 x 5 5/8 in). Cut. LC 42-8838. JSL. Also in blue cloth, centersewn, 20.4 x 14 cm(8 x 5 1/2 in). Cut. Black cover title in rules; spine title. I have seen an issue bearing the words "Compliments of J.R. Wood & Sons, Inc", presumably overprinted specially for presentation to customers, but containing an extra double-f wrapped around the original text contents, and with first p bearing their advertisement.

Entirely reset, revised, in many places rewritten; additional ch on qualities of diamonds signed by Shipley; some exchange and rearrangement of illustrations.

253. -----1946, 3rd edit

The Story Of |... | Robert M. Shipley | Founder Gemological Institute of America | With a chapter by P. Grodzinski | Authority on Industrial Diamonds | With 117 Illustrations | Art Work by Percy Hale Lund | 3rd Edition, Copyright, 1946 | Published by the |... [same frame]

8°: 101, [3 blank]p, 117 figs. Bright blue cloth, gold title in gold rules on cover with cut diamond; gold spine title. 20.4 x 13.9 cm(8 x 5 1/2 in). Cut. JSL.

Cont: title; pref & publ hist; tab cont; introd; 9 chs; biblio; index; 3 blank p.

Several illust exchanged or substituted; Ch 7, "The diamond In Industry," p 75-85, by Grodzinski; otherwise same. Several reprintings, eg, 2nd in 1948, the edition line in title changed to read "3rd Edition, Second Printing, 1948", else identical. LC 42-8838. JSL.

254. AUSTIN, CLIFFORD

I Left My Hat In Andamooka. Melbourne, New South Wales; Wren, 1973. 204 p, ills, not seen.

255. AUSTRALIA. NORTHERN TERRITORY DEPARTMENT OF MINES AND ENERGY

Northern Territory Department | of Mines and Energy | A Guide To | Fossicking In The | Northern Territory | This book was prepared by the staff of the Northern Territory Geologi- | cal Survey... [7 lines of credits]... | [logo, part col] | Darwin, 1982

Centerstapled: 61, [2], [1 blank]p + laid-in "Addenda" as a double-f "following page 57" and an oversight in manufacture; 3 part col sketch maps, 15 col photos, 4 text figs. Heavy, col photo wrap both covers. 25 x 17.7 cm(9 7/8 x 7 in). Cut. ISBN 7245 0547 4. JSL.

Cont: 1/2tp; tp; publ data; dept offices; tab cont; text; appends (biblio p 55, 10 entries); "notes" pp; blank p; + [4]p insert.

General remarks on prospecting/collecting mainly gem materials, with maps & photos of selected localities, including what to find, how it occurs, etc. Appendices give instructions on making a simple specific gravity balance, clubs list, tab of properties for minerals & gemstones.

256. AUSTRALIAN GEMMOLOGIST The cultured pearl and its development. Jun 1966, p 10 to Jan 1967, p 9; not seen, from *Gill's Index* p 157.

257. AUSTRALIAN OPALS & GEMSTONES

Australian Opals & | Gemstones | Natures Own | Fireworks [to lower left, logo of The Australian Gem Industry Association Limited] [Sydney, New South Wales, 1983] [title in white lett on col photos of fireworks display & opals, both covers]

Centerstapled 20 p, col maps, 40 col photos. 29.8 x 20.8 cm (11 3/4 x 8 1/8 in). JSL.

Colorful publicity brochure on high quality glossy paper, excellent photos(list back cover); large sketch map Australia inside front cover; treats opals mainly but a few pages devoted **to sapphires, pearls, jade, rubies, emeralds, diamond**

258. AUSTRO-HUNGARIAN MONARCHY

Kunsthistorische Sammlungen | Des | Allerhöchsten Kaiserhauses. | [rule] | Führer | Durch Die | Sammlung | Der | Kunstindustriellen| Gegenstände. | [orn rule] | Wien, 1891. | Im Selbstverlage der Kunsthistorischen Sammlungen | der Allerhöchsten Kaiserhauses.

8°: VIII, 236 p; ch orns. Stiff, pale tan wrap, orn frames both covers; front & spine titles; visitor rules inside covers. 16.5 x 11.6 cm(6 1/2 x 4 1/2 in). Cut. Preis 40 kr. USGS Kunz Coll.

Preface, by Dr Albert Ilg, Director: brief history of collection, which includes timepieces & automata, rock crystal & quartz carvings and objects, vases in gold, silver, and gemstones, jewels(the private property of the ruling house), royal regalia, etc. Items numbered, identified, briefly described. Most interesting to gemologist: Salons XVII-XXIVa.

259. -------nd, an Engl version

The | Private Treasury | Of The | Imperial And Royal House | Of Austria | In The | Palace Called The I. And R. Burg | At Vienna. [title in elaborate frame]

8°: 149p + [3 blank]p; floor plan, 2 wood engravs. Pale greenish gray printed wrap; title in elaborate frame on cover. 15.2 x 11.1 cm(6x 4 3/8 in). Cut. 75 kr. USGS Kunz Coll.

260. AVENEAU DE LA GRANCIÈRE

Les | Parures Préhistoriques | Et Antiques | En Grains D'Enfilage | Et Les | Colliers Talismans Celto-Armoricains | Précédé D'Un Aperçu Sur Les Temps Préhistoriques | Par Aveneau De La Grancière | [orn rule] | Ouvrage illustré de 22 planches tirées a part | Dont Deux En Coleurs | D'apres des photographies ou d'après des documents authentiques | [orn] | Paris | Ernest Leroux, Editeur | 28, Rue Bonaparte, 28 | [rule] | 1897 [title in red & black]

8°: [1], [1 blank], [1], [1 blank], 176, [1], [3 blank]p, front photo pl bound in + 21 others(2 in col) also bound in. Pale tan printed wrap, title in red & black on cover. 25 x 16.3 cm(9 7/8 x 6 3/8 in). Uncut. JSL.

Cont: 1/2tp; pl; tp; col pl (no 1); text; blank p; index title; blank p; ill list; tab cont; colophon; 3 blank p.

On talismanic necklaces made from various gemstones, shell, amber, or glass, as worn by prehistoric, protohistoric, and historic peoples of the Mediterranean region, with particular reference to survivals of the custom in modern Morbihan, France. Discusses the customs, curious lore associated with same, types of necklaces, materials used, and depicts many examples as well as portraits of Morbihan peasants wearing such necklaces. Color plates show necklaces of amber, carnelian, and lapis lazuli. Other materials include rock crystal, chalcedony, agate, turquoise, and others, also ceramic and glasses. Scarce.

261. AVILÉS BALAGUER, M DE Piedras preciosas. Barcelona: Editorial Molino, Tall. Gráficos Viente Ferrar Muluquer, 943. 63 p. 20 cm. Biblioteca Nacional V/C[a] 1595-24. Not seen.

262. AWENG, E Über den Succinit. Nr 11 der "Untersuchungen über die Sekrete," mitgeteilt von A Tschirch. Arbeiten aus dem pharmaceutischen Institut der Universität Bern. *Archiv der Pharmacie*, Berlin, Bd 232, H 9, 1894, 660-88. Not seen.

263. AXON, GORDON V

The | Wonderful | World | Of | Gems | [rule] | Gordon V. | Axon | Criterion Books, New York [1967]

16°: 160 p; 42 text photos. Pale green cloth, blue publ monogr on cover; blue lett spine. Col dj, resume, vita, author's portr. 20.8 x 14 cm(8 1/4 x 5 1/2 in). Cut. $4.95. LC 67-11918. JSL.

Cont: 1/2tp; tp; publ data & ackn; tab cont; ill list; 29 ch; biblio(p 157, 9 entries); gloss.

Non-technical popular introduction, short chs on mineralogy, gemstone descriptions, phenomenal stones, rarities, synthetics & imitations, organic gemstones, color, inclusions, identification, cutting, appraisals. Generally factual, interesting, but not free of errors, and perhaps too concise in an attempt to cover too much ground in short space. Rev *J Gemm* 11, 3, 1968, 94.

AYCKE, JOHANN CHRISTIAN (1766-1854)

Stadtsrath in Danzig; member Naturforschenden Gesellschaft zu Danzig; official lessor amber-fishing rights along the Danzig coast.

264. -----1835

Fragmente | Zur | Naturgeschichte | Des | Bernsteins. | Von | Joh. Chr. Aycke, | Mitglied Der Naturforschenden Geselschaft In Danzig | [orn rule] | Danzig, 1835. | In Commission Der Nicolaiischen Buchhandlung | In Berlin.

8°: VIII, 107, [1 blank]p. Contemp brown cloth, gilt spine lett(I am not sure that this is an original binding). 21.5 x 12.7 cm(8 1/2 x 5 in). Cropped(?). JSL; GS 34-533, Kunz Coll. Agassiz I, 165.

Cont: tp; Latin quote; pref; text; append; blank p.

For 14 years, Aycke leased amber rights along the Danzig strand, the contents of this book reflecting his first-hand knowledge of amber, based on examination of countless pieces and with shrewd observations which are unique to this treatise. Topics include amber deposits along the Baltic coast, organic remains associated with amber or found included in same, varieties & grades, special shapes of raw amber, and an appendix which describes the commercial system of classification, the working of amber into finished products, and the trade in raw and finished amber. Pogg I, 79; Scudder, 59.

265. AYER, N W

notable | diamonds | of the | world [sic] [New York: N.W.Ayer, l97l]

Centerstapled: 56 p; 11 col photos inside front cover, 9 inside back cover. Heavy white glossy paper wrap; title & col photo on front. 27.7 x 17.9 cm(10 7/8 x 7 in). Cut. Free. Pale tan paper text. JSL.

Issued by the New York public relations firm in behalf of the De Beers organization and based on previous researches and publications of Dorothy Dignam but expanded with much new data. Largest part: dictionary of notable diamonds(name or names, weight, source, descriptions, historical information); also table of large rough diamonds(weight, color, name, date & place of discovery, disposition); table of diamonds found in the USA, this last being particularly valuable because it is almost unique in

its completeness of information. Color photos depict many famous diamonds but also some lesser known gems as Briolette of India, Sultan of Morocco, Oppenheimer(crystal), Niarchos, etc.

AYERS, JOHN, see RAWSON, JESSICA & AYERS, JOHN

266. AYZAC, FÉLICE

Symbolique des pierres précieuses ou topologie des gemmes. *Annales Archéologiques*, 15, 1846, 216-34. Not seen; from C Meier, 1977, p 524.

BABE, JEROME L

According to an advert in the back of the book below, Babe was a dealer in rough & cut diamonds at 3217 Sansom Street, Philadelphia, PA.

267. -----1872

The | South African | Diamond Fields. | By | J.L. Babe, | Special Correspondent Of The "New York World." | [orn, a diamond octahedron] | New York: | Published By David Wesley & Co | 7 & 9 Warren Street. | 1872.

12°: 105, [1 blank], [14 advert]p; front engrav; fold-out map tip-in after tp; 5 fullp engravs(4 views, 1 diagr) tip-ins. Dark brown card covers, gold title cover & spine(?). Tan-yellow endp. 19 x 12.2 cm (7 1/2 x 4 7/8 in). Flush trimmed. LC 6-16889; USGS Kunz coll.

Cont: front; tp; publ data; fold map; introd; tab cont; ill list; notes; 17 chs; blank p; adverts.

One of the earliest firsthand accounts of the discovery and working of the alluvial and in-situ diamond fields of South Africa. Describes the country, discoveries, rushes, his own adventures, methods of prospecting & mining, travel arrangements, notes on large stones,etc. Crudely executed but charming fullpage plates are from sketches by the author and show mines and mining scenes; each is a tip-in, facing a text page purposely left blank. Mendelssohn: "This volume is one of the earliest books on the Diamond Fields of South Africa, and contains a very vivid and exciting picture of the new discoveries. The author started working at the river diggings, and he gives an account of the alluvial fields, and the scenes at the rushes at Bultfontein, Du Toit's Pan, De Beers, and the New Rush(Kimberley). The crude appliances then used for working at the wet and dry diggings are carefully explained, and much advice is tendered to would-be emigrants, together with instructions how to proceed from America and England. Mr. Babe gives an account of the principal South African towns of the time, and the various routes to the Diamond Fields, together with some chapters on the geological peculiarities of the different mines, and an account of the diamondiferous localities in other parts of the world." A rare work.

BABELON, ERNEST CHARLES FRANÇOIS (1854-1924)

Fr numismatist, antiquary; curator, Dept Medals & Antiquities, National Library of France in Paris; prolific author, many works on archeological subjects & antiquities.

268. -----1889

Manual | Of | Oriental Antiquities | Including The | Architecture, Sculpture, and Industrial Arts | Of | Chaldaea, Assyria, Persia, Syria, Judaea, | Phoenicia, And Carthage. | By | Ernest Babelon, | Librarian of the Department of Medals and Antiquities of the | Bibliotheque Nationale, Paris. | Translated And Enlarged By | B.T.A. Evetts, M.A. | Of the Department of Egyptian and Assyrian Antiquities, British Museum. | With Two Hundred and Forty-one Illustrations. | London: H. Grevel And Co., | 33, King Street, Covent Garden, W.C. | 1889.

French edition not seen.

8°: xix, [1], 312 p + [4]p adverts; 241 text figs. 19.5 x 13 cm(7 5/8 x 5 1/8 in). Cropped. LC 5-1804.

Cont: 1/2tp; tp; print data; pref; tab cont; ill list; errata; 8 chs; index; adverts.

Engraved Chaldean seals, Ch 1, p 44-9, 5 figs; Assyrian ivories, Ch IV, 137-8 and seals 143-5, 4 figs; Persian engrav gems Ch V, 180-3; engrav gems Phoenicia & Cyprus, Ch VIII, 294-8, 4 figs.

269. -----1894

Bibliotheque De L'Enseignment Des Beaux-Arts | Publiée Sous La | Direction De M. Jules Comte |[rule]| La Gravure | En | Pierres Fines | Camées Et Intailles | Par | Ernest Babelon | Conservateur Du Département Des Médailles Et Antiques | De La Bibliothèque Nationale | [publ monogr] | Paris | Ancienne Maison Quantin | Libraires-Imprimeries Réunies | May & Motteroz, Directeurs | 7, rue Saint-Benoit [1894]

8°: 320 p, 204 text wood engrav. Pale greenish-blue print wrap, elaborate banner & orn, with title, in dark blue on covers & spine, with "Alcide Picard & Kaan, Éditeurs" on cover. Another issue in pale blue paper, with an archway on cover, orn spine, list of books back cover, with "Les Éditions G. Cres..." on cover. 21.5 x 14 cm(8 1/2 x 5 1/2 in). Uncut. Also in dark green cloth, black banner, orn etc on covers & spine; gold title front cover; very pale green endp. 20.4 x 13.3 cm(8 x 5 1/4 in). Cut. Still another, in same cloth & orn, etc with "Alcide Picard & Kaan, Éditeurs" on cover; te stained red; another in brownish-red cloth, pale gray endp. Paper browning, embrittled in all copies seen. LC F-1212; JSL.

Cont: 1/2tp; publ data; tp; 9 chs; names of gem engravers; tab cont.

Authoritative general work covering all aspects: materials used(good descriptions of major & minor gemstones), technique of engraving, with illustration of Jacques Guay in his workshop-salon, epochs of civilization with engraved gems typical of each, from prehistoric to modern, famous engravers & works, signatures, magical gems, Byzantine gem engraving, Arabian engraving, and especially gem engraving in the Middle Ages, special problems in engraving large agates and vessels, etc. For a small-size book it remains a gold mine of information which no student of gem engraving can afford to overlook.

270. -----1897 Catalogue des camées antiques et modernes de la Bibliothèque Nationale. Paris: Fondation Eugène Piot, 1897. 8°: clxxix, 463 p, 39 x 21 cm, buckram. Portfolio of 76 pls. Not seen: from T. Heneage, London, cat 8, 1984, no 368. *Cat Books Library Assay Office, Birmingham*, 1914, p 17.

271. -----1899

Collection Pauvert De La Chapelle | [rule] | Intailles Et Camées | Donnés Au | Département Des Medailles Et Antiques | De La Bibliothèque Nationale | Catalogue | Redigé Par | M.

Ernest Babelon | Membre De L'Institut | [oval engrav gem] | Paris | Ernest Leroux, Éditeur | 28, Rue Bonaparte, 28 | [rule] | 1899 [title in red & black]

8°: [3], [1 blank], XXIV, 62, [1], [1 blank]p; 10 phototype pls on heavy paper bound-in at end of text; 9 text figs. Orange-tan heavy paper wrap, flaps folded inward over endp; red & black cover title; black lett spine; other publs back cover. 28.3 x 19.2 cm(11 1/8 x 7 1/2 in). Uncut. JSL

Cont: 1/2tp; tp; pref; catalog; tab cont; blank p,; pls.

Catalog of Oscar Pauvert De La Chapelle collection of 167 antique engraved gems donated to Department of Medals and Antiquities, National Library, Paris. Preface explains formation of collection and circumstances of acquisition and describes in general terms the scope and prizes in the collection. For each gem the catalog entry gives material, shape, dimensions, provenance, etc. Classes include Mycenaean intaglios, seal cylinders, conoid seals, scarabs and scaraboids, and other intaglios & cameos. Fine plates showing gems(casts) in full size. Furtwängler, 3, 427: "handsomely produced and good illustrated catalog of the small but fine collection.

272. -----1900

Guide Illustré | Au | Cabinet des Médailles | Et Antiques | De La Bibliothèque Nationale | [rule] | Les Antiques Et Les Objets D'Art | Par | M. Ernest Babelon | Membre De L'Institut | [oval engrav gem] | Paris | Ernest Leroux, Éditeur | 28, Rue Bonaparte, 28 | [rule] | 1900

12°: XV, [1 blank], 368 p; front glossy photo pl bound-in, 172 figs. Heavy, tan wrap, title on cover & spine; back cover adverts. 18.8 x 11.9 cm(7 3/8 x 4 3/4 in). Uncut. Kunz coll.

Cont: 1/2tp; tp; pref; regulations; pl; text; tab cont.

Room-by-room guide; intaglios described p 25-84, cameos p 85-157; Pauvert De La Chapelle coll of 167 gems, p 355-64. Several cuts of major gems in text; front pl depicts the famous "Grand Camée," which occupies a special case, p 120.

273. -----1902

Ernest Babelon | Membre De L'Institut | [rule] | Histoire | De La | Gravure Sur Gemmes | En France | Depuis Les Origines | Jusqu'a L'Époque Contemporaine | Ouvrage Illustré De Gravures Dans Le Texte Et Accompagné De XXII Planches | En Phototypie | [publ logo] | Paris | Société De Propagation Des Livres D'Art | Siège Social: Cercle De La Libraire | 117, Boulevard Saint-Germain, 117 | 1902 [title in red & black]

8°: XX (first 2 p blank), 262, [1], [1 blank]p; 22 photo pls,heavy paper, hinged & bound-in; 57 text figs. Pale green wrap, title on cover in red & black, short title in red & black on spine(with rules); printer name back cover. Inward-fold flaps enclose supplied blank f at each end. 29.4 x 20 cm(11 1/2 x 7 7/8 in). Uncut. LC 3-18534; JSL.

Cont: blank f; 1/2tp; print data; tp; society officers; society members; pref; 12 chs; tab cont; blank p; pls; extra blank f supplied.

Detailed, systematic description of gem engraving development in France, Merovingian period to present. As in previous treatises, Babelon includes under his term "engraving" the actual sculpturing of large objects such as rock crystal vases and other containers made from gem materials. Even more broadly, he also treats jewels, reliquaries, and other objects in which engraved gems may form parts. For example, in Ch 4, "Les cristalliers du XIIIe siècle," he discusses lapidary artisans who not only engraved small gems but also carved very large objects. Here Babelon also explores the origin of the word "cameo" and its variants and recounts the interesting details of his research. In another place, Ch 9, p 159- 208, he provides a concise biography of the famous engraver, Jacques Guay, who also achieved a measure of fame as the instructor in gem engraving of Madame Pompadour, in which skill she achieved considerable success. The plates are of excellent quality, especially when depicting the larger, more important specimens in the collection. While there is no formal bibliography, the text is studded with footnote references; there is no index. Indispensable reference. Now scarce.

274. -----1930 Cabinet des Médailles et Antiques. Les Pierres Gravées. Guide du Visiteur. Paris, 1930, xi, 155 p, 32 pls, paper. Not seen.

BABINET, JACQUES (1794-1872)

B Lusignan, Fr; École Polytechnique 1812; prof physics Coll Louis de Grand, Paris, 1820; mbr Acad Sciences 1840; invented a hygrometer, 3-way stopcock for steam engines, a polariscope, crystallographic goniometer, etc; first to suggest standardizing on specific wavelength of light. Pogg III, 7-2; DSB 1, 357-8.

275. -----1855 Du diamant et des pierres précieueses. *Revue de Deux Mondes*, Paris Feb 15, 1855, 9, p 799-823, in a section entitled "Optique Minéralogique." Comprehensive, scholarly essay: properties, occurrences, deposits, famous examples of diamonds & precious stones, etc. A vague reference suggests this same essay appeared in the author's *Études et Lectures sur les Sciences d'Observation et leurs Applications*, Paris, 1855-68, 3, p 8-89.

276. -----1871 Engl transl by John Stearns. The diamond and other precious stones. By M. Babinet, of the Institute of France. Translated for the Smithsonian Institution by John Stearns, M.D. *Ann Rept, Bd of Regents, Smithson Inst...Year 1870*, Washington: Government Printing Office, 1871, p 333-63.

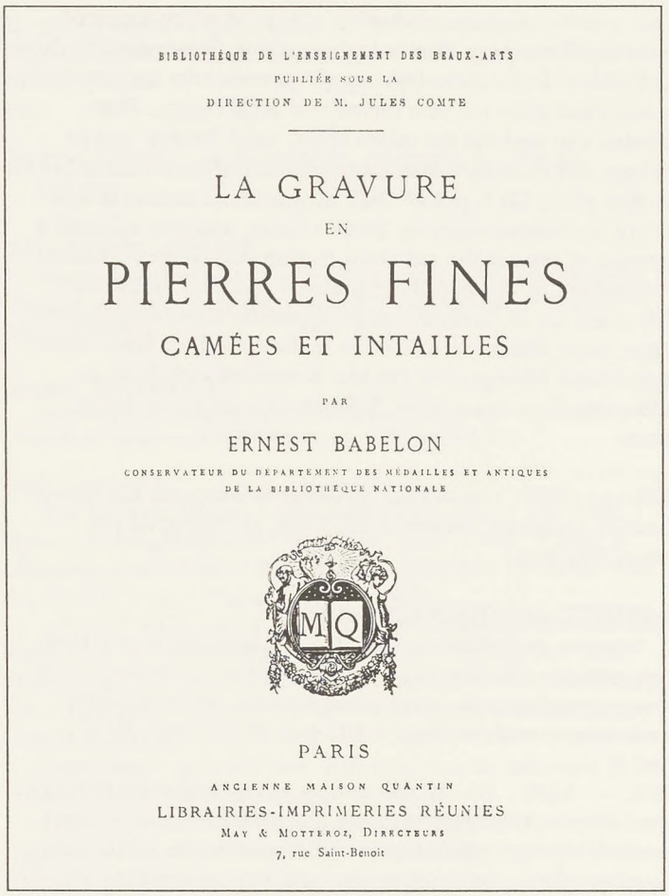
277. BABINSKI, HENRI Rapport sur une visite aux lavras Diamantinas, gisements de diamants et du charbon de Lençoes, Palmeiras, San Antonio, Chique-Chique, et Mar de Espanha (État de Bahia), Brésil. Paris: Imprimerie Chaix, 1897, 39 p, map. Not seen: Iglesias & Meneghezzi, *Bibliogr Brasil*, 1641-1950, 1959, p 36.

278. BABYLUK, BORIS TIMOFEEVICH

Boris Babyluk | [orn] | Yakutskie | Almazy | [vignette] | [orn rule] | Yakutskoe Knizhnoe Izdatelstvo | Yakutsk - 1957 [title in red & black]

Edgestapled: 116, [1], [1 blank], [2]p; 18 photos, 2 ch orns. Pale blue front cover, title in paler blue with cluster of diamond crystals; back cover plain, with price. 20 x 12.7 cm(7 7/8 x 5 in). Cut. 1 r 30k. Press run 3,000. JSL.

Cont: tp; annotation; text; tab cont; publ data.


BIBLIOTHÈQUE DE L'ENSEIGNEMENT DES BEAUX-ARTS
PUBLIÉE SOUS LA
DIRECTION DE M. JULES COMTE

LA GRAVURE
EN
PIERRES FINES
CAMÉES ET INTAILLES

PAR

ERNEST BABELON
CONSERVATEUR DU DÉPARTEMENT DES MÉDAILLES ET ANTIQUES
DE LA BIBLIOTHÈQUE NATIONALE

PARIS
ANCIENNE MAISON QUANTIN
LIBRAIRIES-IMPRIMERIES RÉUNIES
MAY & MOTTEROZ, DIRECTEURS
7, rue Saint-Benoit

269. Babelon's condensed treatise on engraved gems that is both comprehensive and thorough

Story of Russian explorations in Yakutia region of Siberia for diamonds leading to discovery alluvial deposits and later pipe deposits. Photos mainly show scenes, camp sites, early prospecting arrangements, and portraits.

279. -----1959

B.T. Babyluk | Klady | Amakinskoi Taigi [Moskva: Izdatelstvo "Sovetskaya Rossiya," 1959] [green ink title + sketch open cut mining]

8°: 133, [3]p; fold front sketch map; 22 photos on 8 glossy pls; 8 text sketches. Green wrap, col design on cover with title in pale green. 21.3 x 16.2 cm(8 3/8 x 6 3/8 in). Cut. 2r 80k. Press run 1006. USGS Kunz coll; LC 60-28199.

Cont: tp; map; pref; 8 text parts; tab cont; publ data.

Stories of diamond mining under adverse conditions in remote Yakutia of Siberia; describes working conditions, housing, recreation, food, etc, all of it presented in romantic terms, possibly to entice volunteer workers.

BACCI, also BACCIO, BACCIUS, ANDREA (1550-1598)

Andrea Bacci, named Elpidiani, b near middle of 16th c in San Elpidio, Ancona, Italy; stud botany & pharmacy Rome but not professionally successful inasmuch as he died in poverty and debt; sought and found security and freedom in the household of Cardinal Ascanio Colonna (c1560-1603) and later made pers physician to Pope Sixtus V; while in Rome he wrote several treatises on natural history and other topics, his most important being *History of Wine*, Rome, 1596, Frankfurt 1607. Pogg I; A. Hirsch *Biographisches Lexikon d hervorragenden Ärzte aller Zeiten und Volker*, Wien & Leipzig, 1885. Agassiz I, 168, mentions an edit of Rome, 1577.

280. -----1587

Le XII-Pietre | Pretiose, | Le Qvali Per Ordine Di Dio Nella | santa legge, adornauano i vestimenti del | sommo Sacerdote. | Aggivntevi Il Diamante, Le Margarite, | e l'Oro, poste da S. Giouanni nell'Apocalisse, in figura della celeste Gie- | rusalemme: Con vn sommario dell'altre pietre pretiose. | Discorso Dell'Alicorno, Et Delle Sve | singolarissime virtu. Et della gran Bestia detta Alce | da gli Antichi. | Di Andrea Bacci Medico Et Filosofo. | All'Illustriss. Et Reuerendis.| S. Alessandro Peretti Cardinal Mont'Alto. | [woodcut device, an eagle, talons resting on a sphere with initials "G M", in elaborate frame] | Con Licenza De I Svperiori. | [rule] | In Roma, Appresso Giouanni Martinelli M.D.LXXXVII.

4°: [8], 130, [10]p, †^{4}, A-Q^4, R^6; ch orn, 3 large floral woodcut tailpieces, orn inits. 21.3 x 15.3 cm(8 3/8 x 6 in). Cropped. USGS Kunz coll GS 34-574; JSL.

Cont: tp; dedic to Peretti; 12 stones of the High Priest's breastplate (to p 37); unicorn(to p 110); on other large beasts (to p 130); laudatory sonnet to Peretti by Hercole Bacci; blank p; tab cont; colophon(signatures & large woodcut printer's dev, different from that on tp, printer's name and date).

As can be seen from the contents, only the first 37 pages are devoted to the description and discussion of the twelve gemstones of the High Priest's breastplate, with the remainder treating the unicorn and other fabulous beasts. Of this work, Thorndike, *A History of Magic*..., 7, 315-6, states "Andrea Bacci, physician to Sixtus V, besides works on baths, poisons, simples and other medical topics, published in 1581 or 1587 in Italian a treatise on the twelve precious stones... after the similar work of Epiphanius, together with other gems and a discussion of the unicorn and its most singular virtue...this book contained such assertions as that chrysolite would preserve one from fascination... gold was marvelous both its substance and its every quality... bezoar stones from the New World were more surely derived from animals... [etc.]" For further comments, see remarks under the 1603 edition below. Odell Shepard's monograph, *The Lore of the Unicorn*, 1930, p 161-2, which see, notes that Bacci "was a professional student of botany and a physician to the Pope, very erudite but not successful in medical practice, so that he seems to have lived in poverty until the Cardinal Azzolini [sic] Colonna took him into his household. His numerous treatises show a penchant for recondite topics on the border between magic and science. He had far more learning than Marini[referring to a book on the unicorn, published by Andrea Marini in 1566] and a more poetical mind; the total impression that he makes on one who reads several of his works together is that of an Italian and somewhat less Humorous Sir Thomas Browne; his thought, however, was not active and trenchant, but absorbent, and he loved mystery more than he did truth." Other assessments of Bacci's character also appear in Thorndike,

ibid, 5, 484-5, and, in 6, 315, he notes that "Vecchietti, *Biblioteca Picina*, lists an edition of 1581, which I have not seen," but other sources do not confirm this and state that the edition of 1587, just described, is the first.

281. -----1603, Frankfurt, Latin transl by Gabelchover

Andreae Baccii | Elpidiani | Philosophi, | Medici Et Civis Ro- | Mani, De Genmis Et Lapi- | dibus pretiosis, eorumq́; viribus | & vsu tractatus, Italica lin- | gua conscriptus: | Nvnc Vero Non Solvm | in Latinum sermonem conuersus verum at- | iam utilissimis annotationibus & | obseruationibus auctior | redditus. | A Wolfgango Gabel- | Chovero, Medicinae Doctore | & Physico Calvvensi ordinario. | Cui accessit disputatio, de generatione auri in locis sub- | terraneis, illusq$_3$ temperamente. | [orn] | Francofvrti | Ex officina Matthiae Beckeri, impensis | Nicolai Steinii, | [rule] | Anno M. DC. III.

8°: 231, [22], [3 blank]p, A-Q^8; woodcut ch orns, inits. 15.4 x 9.5 cm(6 x 3-3/4 in), Cropped. USGS Kunz coll; JSL; Ward & Carozzi 94; De Golyer coll, U Okla. The GS 34-200 Rev copy measures 16 cm. P [186] lacks p no.

Cont: tp; dedic; authors cited(p 7-12); text; on gold & silver by Lang; general index; species index; addit conments on Ch 3 & 4; errata; blank p; blank f.

W Gabelchover; b Stuttgart, studied natural history, philology, MD & physician in court of Württemberg; wrote on the unicorn, Stuttgart, 1598. *Biogr Univ*, 16, 213.

The treatise opens with two chapters on nature, origin, virtues, uses, and mentions of gemstones in the Bible. From Ch 3 to 42 (Ch 39 misnumb 40; Ch 41 given same no twice), Bacci describes the classical stones of the High Priest's breastplate but then goes on to describe many more, including those whose identities are still in doubt, and others as geodes, fossils, etc, which now are not classed as "precious" although this was the custom in Bacci's time. Ch 35 is a letter on the bezoar written by Claude Richard while at the end of the text appears an added letter on gold & silver written by Johann Lang (1485-1565). Most of Bacci's material is a synthesis of other writings taken from the authors listed on p 7-12. Much factual information is provided but it is interlarded with curious lore and superstition as may be divined from the comments of Thorndike above. The most recent, searching analysis of this edition is found in an article entitled "Von der Heilkraft der Edelsteine: Die Lithotherapie an der Wende zum 17. Jahrhundert in Zitaten von Bacci und Gabelchover" by Dr med Jürgen Schwalm of Lübeck, in *Der Aufschluss* 26, 9, 1975, 355-67, 2 figs. Schwalm notes that Gabelchover translated the work from Italian into Latin and arranged for its publication, and by providing extensive commentaries "practically reshaped the work into his own." Schwalm discusses the following: sard, topaz, emerald, carbuncle (also spinel & ruby), sapphire, jasper, agate, amethyst, chrysolite, beryl, rock crystal, onyx, diamond, pearl, moonstone, heliotrope, lapis lazuli, prase & chrysoprase, opal, malachite, turquoise and coral. However, and perhaps understandably, Schwalm did not comment on numerous other odd stones as the alectorius, chelidonius, draconite, bezoar, etc.

282. -----1643, another edit

Andreae Bacci | Elpidiani | Philosophi, Me- | Dici Et Civis Roma- | Ni, De Gemmis Et Lapi- | dibus pretiosis, eorum'q$_3$ viribus & | vsv tractatus, Italica lingua | conscriptus: | Nvnc Vero In Latinum | Sermonem conversus. | A Wolfgango Gabel- | Chovero, | Medicineae | Doctore. | [woodcut vignette, a fallen tree] | Francofvrti, | Apud Johannem Davidem | Zunnerum. | [rule] | Anno M.DC. XLIII.

8°: 231, [22], [1 blank]p, A-P^8, Q^6 + [1]f supplied. Inits, ch orns. 14.7 x 9 cm(5 3/4 x 3 1/2 in), Cropped. GS 33-238, Kunz coll.

Cont: tp; dedic; authors cited; text(to p 219); Lang's ltr (p220- 31); tab cont; index; supplement by publ; errata; blank p.

283. BACHER, WILHELM Une ancienne liste des noms grecs des pierres précieuses relatées dans Exode, XXVIII, 17-20. *Revue des Études Juives*, 28, 1894, 79-90. Not seen, from C Meier, 1977, p 524.

284. BACHOFEN-ECHT, ADOLF KARL CLEMENS FRANZ, *Freiherr* (1864-1947). Leben und Sterben im Bernsteinwald. *Paläobiologica; Archiv für die Erforschung des Lebens der Vorzeit und seiner Geschichte*, Leipzig, 1, 1928, 39-50, 3 pls, 21 text photos; 2, 1929, 15-18, 1 pl, cont p 262-69, 3 pls. Not seen. Short survey nature and age of amber and flora of the Baltic amber forest followed by a survey of the insect life in two parts; considerable detail, excellent pls, 3 in color.

285. -----1949

Der Bernstein | Und Seine Einschlüsse | Von | Dr. Adolf Bachofen-Echt | Wien | Mit 188 Textabbildungen | [publ logo] | Wien |Springer-Verlag | 1949

8°: [5], 204 p; tip-in col front pl, 188 figs. Plain white paper bds, white paper printed wrap cemented at spine. 22.7 x 15 cm(9 x 5 7/8 in). JSL. LC 50-961.

Cont: col pl; tp; publ data; fwd; tab cont; 14 chs; biblio(233 entries).

Excellent, richly illustrated treatise on inclusions in amber. First 3 chs describe natural history of Baltic amber, ancient knowledge, uses, trade routes, etc, with remaining chs systematically describing vegetable, animal and insect inclusions; by far most space & illustrations devoted to insects. A final ch correlates flora & fauna of the ancient forest with forests of the present, pointing out strong similarities and dwelling upon the fact that many descendents are now living elsewhere than in the geographical region originally covered by the amber forest. Also discusses the probable fate of the forest.

BACHOU, J, see BOODT, A B DE, 1644

286. BAECK, MATTHIAS & ROSENLEW, OTTO WILHELMUS Dissertatio de topasio caeruleo Brasiliensi, quam, venia ampliss. Fac. Philos. Aboeens. In audit. Philos. die VIII Aprilis MDCCCCXVIII, horis a.m. consvetis - Aboae, Typis Frenckelliorum, 1818, 8°, 20 p. Not seen.

287. BAEDEKER, KARL

Idar | Oberstein | Kurzer Stadtführer | Von | Karl Baedeker | Mit 9 Karten Und Plänen | Und 18 Zeichnungen | Karl Baedeker · Freiburg | 1974

Cementback: 51 + [5 advert]p; 9 Maps & plans(part tinted), 18 line drawings; ch orn. Glossy, red cover, yellow title + city

emblem on cover; back cover vignette. 15.7 x 10.5 cm(6 1/8 x 4 1/8 in). Cut. JSL.

Typically thorough guide, with historical remarks, to this famous German lapidary center, with much material on the history, development and current status of the industry. P 9: books on the locale and its industry, also works on gemology.

288. BAERWALD, MARCUS & MAHONEY, TOM

Gems And Jewelry | Today | An Account Of The Romance And | Values Of Gems, Jewelry, Watches And Silverware | by Marcus Baerwald | and Tom Mahoney | Marcel Rodd Company, Inc. [publ logo] New York [1949]

8°: xv, [1], 303, [1 blank]p, ca 240 figs(9 col). Black, unfinished cloth, gold cover orn, gold spine title. Bright yellow endp; the front flyleaf bears a pale gray vignette. 27.9 x 21.6 cm(11 x 8 1/2 in) Cut. JSL.

Cont: 1/2tp; front illust; tp; publ data; dedic; blank p; tab cont; fwd; Oscar Wilde quote; 15 chs; append; biblio(p286-95, 83 books & pamphlets, 80 articles); index; blank p.

Comprehensive, valuable, of interest both to professionals as well as the general public and written in easily understood language. Emphasizes romantic aspects of gemstones & jewels but contains much solid information on diamond, pearl, important gemstones, others of lesser rank, and the gemstones of the United States, including diamonds. Also treats manufactured gemstones and provides A discussion on birthstones. The appendix presents many odd facts, eg, a full list of gemstones that have been cut & polished for use in jewelry, code of ethics for jewelers, property tables, alloys, etc, and with the extensive bibliography noted above, which however, is not free of errors. Most of the material was incorporated in the author's next work, which notes (p 11) that the present edition is "now out of print because of the destruction of the plates in a fire."

289. -----1960

The Story Of | Jewelry | A popular account | of the lure, lore, sience | and value of gems | and noble metals in the | modern world | Marcus Baerwald | Tom Mahoney | [publ monogr] | Abelard-Schuman | London New York

8°: 221, [1], [2 blank]p, glossy photo front tip-in; 98 ills on 27 glossy bound-in or tipped-in f. Black cloth, gold title on cover & spine. Black & green dj; title in white panel on cover; resume, vitas. 22.8 x 15.1 cm(9 x 6 in). Cut. $6.50. LC 59-11647. JSL.

Cont: 1/2tp; pl; tp; publ data; tab cont; ill list; fwd; 16 chs; gloss; index; blank f.

Similar to foregoing; more space devoted to gemstones than implied by title and only 4 chs really devoted to jewelry; this version is neither as complete nor as useful.

290. -----1960, London: bright green cloth, gold spine title only; same dj, pale tan endp. 22.8 x 14.6 cm(9 x 5 3/4 in). Cut. 35s net. Later issued in slimmer size, bound in green cloth-type paper over bds. Contents same.

291. -----1966, Spanish transl: Historia de la Joyas, Barcelona: Ed. Zeus, 1966. Not seen.

BAGDASAROVA, K S, see KLASSEN-NEKLYUDOVOY, M V

292. BAHNSON, K Nefrit-og Jadeïtsäger i Europa. *Aarbøger for Nordisk Oldkyndighed Og Historie*, Kjøbenhavn, 1889, p 149-69; Fr transl by E Beauvois: Les Objets de néphrite et de jadéite en Europe. *Mémoires des Antiquites du Nord*, Copenhague, 1889, p 413-26. Not seen.

BAIER, ERNST (1898-1974)

B Weinsberg, Württemberg, Ger; stud chem mineralogy Tübingen & Würzburg; in 1931 studied cristallography Technische Hochschule Berlin; field work in Iran 1934-7; taught Freiberg 1936; employed Physikal Techn Reichsanstalt 1943-5; prof mineralogy U Mainz 1946-67.

293. -----1932 Die optik der edelopale. *Zs f Krist* 81, 3/4, 1932, 183-218. Also separately: edgestapled, same pag, 25 figs of which figs 20-25 (photos) are on a glossy f(pl 7). Pale greenish-gray print wrap, cover title. 23.3 x 15.7 cm(9 1/4 x 6 1/4 in). Cut.

Very thorough, detailed investigation into optical properties of precious opal establishing definite geometric orientations of color play patches and leading to the now discredited conclusion that the color is produced by lamellar structure within each patch or "light grain." Reflecting plane poles either hexagyral or hexagyroidal, grains of the first being related to calcite relicts and possessing an ultramicroscopic basal-twin structure. The properties described anticipate those of J V Sanders(1964) but are due to the causes elucidated by Sanders and his school. See also O Bütschli, 1900.

BAIER, JOHANN JAKOB, see EBERMEYER, JOHANN MARTIN VON

294. BAIER, JOHANN WILHELM (1675-1729), *presiding*

Q.D.B.V. | De | Sapphiro | Scripturaes. | Occasione | Jobi XXVIII, 6. | In Ordine, quem vocant, | Circulari | Sub Praesidio | Joannis Guilielmi Baieri, | Phys. & Mathem. Prof. Publ. | publice disputabit | Sebastianus Jacobus Jugendre | Ad d. 7. Novembr. MDCCV. | H.L.Q.C. | [rule] | Altdorfi | Literis Jodoci Eilhelmi Kohles. [Altdorf 1705]

4°: 15, [1]p, A-B^4. 20.5 x 16.5 cm(8 1/8 x 6 3/8 in). Uncut. GS 34-754, Kunz coll.

J W Baier, Lutheran theologian & prof at Halle U in 1694, and author of religious works examined Sebastian Jacob Jugendre (1684-1765) on his dissertation concerning the identity and significance of passages mentioning the sapphire in the Scriptures. Gatterer II, 56. According to Poggendorf, I, Baier wrote a treatise on asterism which I have not seen nor can I say it applies to gems.

295. BAILEY, BANKS & BIDDLE

Gems [Philadelphia, 1881]

Centersewn: 20 p, brownish-red wrap, gold title in gold-ruled frame on cover. 14.7 x 11.3 cm(5 3/4 x 4 3/8 in). Cut. LC-CA 10-2245 unrev. JSL.

Handsome informative brochure for customers this long-established firm of jewelers: general remarks, lore, birthstones, sources, diamond, Brazilian & South African diamonds, famous diamonds, diamond cutting, choosing gems.

BAILLOU, see JOANNON DE SAINT LAURENT

296. BAIN, THOMAS CHARLES JOHN(1829?-1893)

An Attempt | To | Account For The Origin | Of | The Cape Diamond, | Embracing Hints For Aiding In Successful |

Search Within The Colony. | By | Thomas Bain, | Inspector Of Roads. | Cape Town: Saul Solomon & Co., 49 & 50, St. George's-Street | 1870.

8°(?): 8 p, ca 22 x 13 cm(9 x 5 in). Print wrap(?). Examined a xerographic copy only. A large, hand-col map accompanies this report.

Invites attention to similar stratigraphies in Indian and South African diamond-bearing regions and suggests that in view of the high- pressure & high temperature requirement for diamond formation, that such were provided in the numerous igneous rock dikes (greenstones) which may have assimilated carbon from limestone layers below and formed diamond. Author claims that diamonds were found abundantly near such dikes; suggests also that the crystals weathered from them and recommends prospecting accordingly.

297. BAINBRIDGE, HENRY CHARLES (1874-)

Twice Seven | The Autobiography Of | H.C. Bainbridge | [publ monogr] | London | George Routledge & Sons, Ltd. | Broadway House: 68-74 Carter Lane, E.C. | 1933

8°: xi, [1 blank], 312 p; glossy photo front pl tip-in + 7 others. Bright blue unfinished cloth, gold spine title; dull blue dj, title in box over the fig "77" in pale gray on cover; similar lett spine; resume back cover. 21.6 x 13.7 cm(8 1/2 x 5 3/8 in). Te stained dark blue. Cut. JSL.

Cont: 1/2 tp; pl; tp; publ data; dedic; tab cont; ill list; ackn; preamble; 11 chs; index.

Selected episodes, especially in his later years when he acted as London agent for the Moscow Fabergé jewelry branch. Much interesting and authentic material on importation and sale of Fabergé objects in England and about the firm itself. Plates: easter eggs, portraits, etc. Large demand caused reprinting in Dec of same year.

298. -----1934, New York

Twice Seven | By | H.C. Bainbridge | Illustrated | [publ monogr] | New York | E.P. Dutton & Co., Inc. [1934]

8°: x, 312 p; same front pl but printed on a text f + 7 others, all on text f recto, versos blank, bound-in & not includ in pag. Dull brown-gray cloth, gold title in gold frame on cover; gold title & rules spine. Similar dj but with white panel at foot giving resume; also flap resume. 21.9 x 14.7 cm(8 5/8 x 5 3/4 in). Te cut, others untrimmed. JSL.

Cont: 1/2tp; front ill; tp; publ data; dedic; ackn; tab cont; ill list; preamble; text; index. Contents same.

299. -----1937, New York, rev. Same title; p [iv] "Revised Edition...October 1937." Pls I, V, VI & VIII show different photos with captions in ill list changed to match; front matter reset; p 175-7 contains squeezed-in matter on Dr Armand Hammer; last p index reset to accomodate new matter but Hammer not mentioned.

PETER CARL FABERGÉ SERIES

300. -----1949

Peter Carl | Faberge | Goldsmith and Jeweller to the Russian Imperial Court | and the principal Crowned Heads of Europe | An Illustrated Record and Review of | his Life and Work, A.D. 1846-1920 | by | Henry Charles Bainbridge | With a Foreword by Sacheverell Sitwell | [imperial eagle] | B.T. Batsford Ltd. | Publishers by Appointment to H.M. Queen Mary | 15 North Audley Street. London W.1 | New York · Toronto · Sydney [1949; title in red & black]

An American issue reads B.T. Batsford Ltd. | Publishers ... | 122 East 55th Street, New York · London · Toronto · Sydney

Two editions: Library Edit, 1,000 copies in Grt Brit, 750 in USA; De Luxe Edit, 250 copies in Grt Brit and 100 copies in USA.

Library, 4°: xxiv, 169, [1]p; glossy front portr pl of Fabergé tip-in + 127 others bound-in(17 col, 1 part col). Dull red cloth, gold eagle on cover, gold lett & rules spine. Pale blue dj, title, eagle, rules on frontcover & spine; flap resume. 29.3 x 22.5 cm(11 1/2 x 8 7/8 in). Cut. £7.7.0 net(USA $35.00); de luxe, £15.4.0($70.00). JSL.

De Luxe: extra blank endp leaves; bright blue Niger morocco spine & corners + tan-yellow cloth sides; gold eagle on front cover; 5 raised bands, gold rules, gold lett spine & gold rules on covers. 30 x 23 cm (11 3/4 x 9 1/8 in); teg, others untrimmed. In stout card slipcase with rounded extensions to protect spine ends; light blue cloth, plain.

Cont: 1/2tp; pl; tp; publ data; dedic; fwd; author's pref; tab cont; pls list; errata & addenda slip inserted; 8 chs; postscript; index; ackn.

This is considered the standard and best work on Fabergé and is better than the competing work by K Snowman of 1953, which see. It provides more detail on the shops, craftsmen, and productions with which Bainbridge, not surprisingly, was more familiar. The present work treats the family and its history, the establishment of the business, Fabergé's art and entrepreneurship, the famous Easter Eggs, his output during Edwardian times, and remarks especially on the naturalistic animal and flower carvings produced from numerous varieties of gem materials and with or without metals and enamels. Much space is devoted to individual artisans and their shops responsible for specific areas of work. Aside from the stone carvings mentioned above, Fabergé was fond of utilizing gemstones in boxes and containers with many of the larger pieces made from Siberian nephrite and rhodonite (orletz).

After World War I, many of the pieces remaining in Russia in the hands of the Conmunists were sold abroad to raise money. Their value steadily increased until enormous sums were realized, and still are, for relatively simple carvings of animals, birds, figures, etc. It is common gossip in Idar-Oberstein, the world's greatest Western-style carving center, that many of the gemstone objects or parts thereof were carved there under contract and shipped to Russia. Many carvings now being produced in the twin cities are virtually indistinguishable from Fabergé pieces. While some doubts may be raised as to the origin of certain of his carvings, there can be no doubt that the superb enamels and metalwork of Fabergé are attributable to his shops alone. All of these objects, including the almost limitless variety of small to large pieces, utilitarian or purely artistic, or even meant to inspire a smile, are beautifully depicted in color upon the excellent photographic plates. Peter Carl Fabergé was born in St Petersburg in 1846 but educated in Paris and then apprenticed in the family jewelry shops. In 1870, he assumed control of the family enterprise and achieved a vast production of unfailingly superb quality objects until the Revolution in Russia caused him to close his shops and flee to Switzerland where he died in 1920.

301. -----1949(?) reprinted, with addenda. Title now black; final line reads "4 Fitzhardinge Street · London, W.1"; addenda added to foot of p xviii; last p now blank. Maroon silk; same dj & page size, top edge stained red.

302. -----1966, reprinted, new publisher

Peter Carl | Fabergé | [accent mark now added] | Goldsmith and Jeweller to the Russian Imperial Court | His Life and Work | by | Henry Charles Bainbridge | With a foreword by Sacheverell Sitwell | [eagle] | Spring Books · London

P [iv]: "This edition published 1966 by Spring Books, Drury House · Russell Street · London WC2."

8°: xx, 167, [1 blank]p, tip-in glossy col pl of jade carving + 172 b&w photos on both sides of 56 bound-in glossy f + 20 col photos on both sides of 8 bound-in glossy f; 1 text fig(labeled fig 1-3). Brownish yellow cloth, gold lett spine. Black, plasticized dj, gold & white lett, col photo on cover; stylized gold silhouette of Fabergé back cover;flap resume & advert. 27.9 x 21.9 cm(11 x 8 5/8 in). Cut. Top edge stained pale gray.

Cont: 1/2 tp; pl; tp; publ data; fwd; author's pref; publ note to this edit; tab cont; errata slip; pls list; text; postscript; index.

P xiv: "The present edition differs only in that the illustrations have been slightly rearranged with suitable adjustments to the text and index." Also: "Mr. Bainbridge's text has been left as it was originally written, apart from one passage where recent events have rendered the argument meaningless in its former context ... " However, one color plate is now b&w, and others crowded together; the color is less vivid and edges are slightly blurred compared to the original impressions.

303. -----1971, 4th impression. Foot of title now reads "Spring Books | London. New York · Sydney · Toronto" [no date]. P [iv]: "Fourth Impression 1971 | Printed in Hong Kong by | Lee Fung Printing Company Limited | ISBN 0 600 01307 3". While contents identical, now bound in black cloth-type paper over bds; gold spine title. 28 x 21 cm(11 x 8 1/4 in). Cut. Edges unstained. Same dj. Rather poor plate reproduction, cheaper materials; probably manufactured in large quantity judging from abundance of secondhand copies.

BAKER, GEORGE (1908-)

B Coventry, Engl; BSc, MSC, DSC U Melbourne 1933-56; faculty to same; specialized in study Australian tektites.

304. -----1957 The role of australites in aboriginal customs. *Memoirs, National Mus of Victoria*, Melbourne, 22, 8, 1957, 1-26. Not seen.

305. -----1959 Tektites. *Memoirs of the National Museum of Victoria*, Melbourne, no 23, issued 1st July, 1959, 313, [3]p, 41 figs, 23 bound-in pls, 23 tabs. Pale gray print wrap; 24.3 x 18.4 cm(9 1/2 x 7 1/4 in). Cut. JSL.

One of the most important treatises on tektites ever published. Topics: world distribution, modes of occurrence, collecting & collections, terminology, nature, external & internal features, chemistry, theories of origin and fall, morphology vs possible origins, motion physics, uses of tektites, pseudo-tektites, experiments, natural glasses vs tektites, status of the tektite problem. Gemological interest: Ch 13, 187-90, "Uses of tektites and their vernacular terminology," in which the curious lore and applications to personal adornment are discussed. Also of interest, description of the sometimes-faceted Libyan Desert glass, along with other natural glasses, in Ch 16, p 207-26. Gratifying treatise because the author sensibly includes information on the cultural aspects of tektites rather there merely presenting scientific facts.

306. -----1962 The present state of knowledge of the "age-on-earth" and the "age-of-formation" of australites. *Georgia Mineral Newsletter*, GA Geol Survey, Atlanta, 15, 3/4, Fall-Winter 1963, 62-83, 5 figs, 6 photo pls. Valuable mainly to the gemologist for its excellent photos of dozens of typical & atypical australites.

307. BAKER, RICHARD THOMAS. Building and Ornamental Stones of New South Wales. Sydney: Technological Museum, 1908. Not seen. GS 17-272.

308. -----1909, 2nd edit

... Building and Ornamental Stones | [double-rule] of [double-rule] | New South Wales. | [2nd Edition] | By | R.Y. Baker, F.L.S., & C., | Curator. | 1909. | Published by the Authority of the Government of New South Wales.

At head of title: "Technical Education Series, No. 15... Technological Museum, Sydney." Entire title in heavy ruled border and an elaborate Art Nouveau decorative frame, with ornamentation.

Oblong 4°: 85, [1], [2 blank]p; 36 tip-in glossy col pls; 65 photos; part-col map tip-in. Bright red cloth, or light-blue flecked cloth, gold cover title, spine title; Pale green or tan floral endp. 18.4 x 24.8 cm(7 1/4 x 9 3/4 in). Cut. BMNH; GS 12-361.

Cont: 1/2tp (with cut of a native encampment); photos of museum; col pl; tp; officer list; tab cont; col pls list; photo list; introd; pref to 2nd & 1st edits; photo; pls II-III; text; sketch map; photo; print data; blank f.

Sources & descriptions: granites, gneisses, trachyte, porphyry, basalt, dolerite, marbles, slate, serpentine, etc, with quarry photos & buildings utilizing these stones; many color photographs of actual size polished pieces.

309. -----1915

... Building and | Ornamental Stoncs | [double rule] of [double rule] | Australia. | 1915. [small orn and in 3 lines to right:] By | R.T. Baker, F.L.S., &c. | Curator [title enclosed in Art Nouveau frame]

At head of title: "Department Of Public Instruction... Technical Education Serics, No. 20. [the "20" supplied as small paste-on printed rectangle] ... Technological Museum, Sydney."

Edgestapled: [2], 169, [1] p, 55 col pls(printed recto only), 123 photos, map(part colored), woodcut on 1/2tp. Heavy white paper wrap, gold Australian coat of arms on cover + brown lett & a native flower in red & green. Pale tan endp. Also in grayish-green buckram, gold title on cover & spine, pale tan & green floral endp. Oblong. 17.8 x 24.7 cm(7 x 9 3/4 in). Cut. All text and b&w photos within elaborate frames. JSL.

Cont: 1/2tp; photos; tp; officer list; tab cont; illust lists; introd; building and orn stones; descriptions; appendix; biblio(p 168, 12 entries); map; b&w photo; publ data.

Elaborate, colorful; provides some history, remarks on the stone industry, colors and properties of stones, fire tests, and in

by far the largest part, descriptions according to rock class and remarks on specific localities, plus many illustrations of buildings, statues, and the like inserted in appropriate places. Good quality illustrations, the color being particularly good. Appendix: crushing, firing experiment test results.

310. -----1910, with J Nangle On some building and ornamental stones of New South Wales. *J Roy Soc NSW*, Sydney, 43, 1910, 180-97. Not seen.

311. BAKEWELL, J R

An Introduction | To The | Study Of Mineralogy; | Or, | Student's Pocket Companion. | [rule] | By | J.R. Bakewell, Esq. F.G.S. C.E. &c. | [rule] | London: | Printed For Sherwood, Gilbert, & Piper, | Paternoster-Row. | [rule] | 1829.

12°: vii, [1 blank], 120 p, 2 engrav pls frontispiece tip-ins, each with tissue. Gray paper bds, gray spine paper & printed spine label. 18.2 x 11 cm(7 1/8 x 4 1/4 in). Cut JSL.

Cont: pl(view of Cape D'Or, NS & cross-sect of Cornish mine); another pl showing cross-sect of copper & tin mine; print data; prospectus; pref; text; pls description; index.

Aside from meager remarks on common gemstones & Mohs and Werner schemes of classification, which include gemstones, this small work almost entirely provides simplified descriptions of metals and ores but it does contain a "Tabular View Of The Pellucid Gems, Arranged According To Their Colour, With Some Of Their More Distinctive Characters," p 97-105, which table is certainly patterned after that given by R J Haüy in his *Traité Des Caractéres Physiques Des Pierres Précieuses*, 1817, p 236-53, which see

312. BAKUL, V N Synthetic diamond application in the Soviet Union. *Diamant*, Antwerp, nos 93, 94, 1967, 19 pages. Engl-Flemish-French. Not seen.

313. BALAKIREV, V G, et al Mineralogiya i kristallofizika yuvelirnykh raznovidnostey kremnezema [The mineralogy and crystal physics of gem varieties of silica]. Moskva: Izdatelstvo Nedra, 1979, 149 p, ills(incl 12 tabs, 4 pls); 136 refs. Ref: A V Milovsky & O V Kononov, *Mineralogy*, 1985, p 315. Not seen.

BALDASSERONI, V, see ALOISI, P

314. BALDINI, UMBERTO; GIUSTI, ANNA MARIA & MARTELLI, ANNAPAULA PAMPALONI

La Capella Dei Principi | E Le Pietre Dure | A Firenze | A Cura Di | Umberto Baldini | Anna Maria Giusti | Annapaula Pampaloni Martelli | Electa Editrice [Milano, 1979]

"Galleri E Musei Di Firenze, Collana Diretta Da Ugo Procacci."

4°: 355, [1 blank], [1], [1 blank], [1 blank], [1], [1 blank]p; 9 text photos(4 col), 336 catalog photos(55 col). Pale olivegreen charcoal paper over bds, pale green lett, purplish-brown design on cover. 25.9 x 21.5 cm(10 1/4 x 8 1/2 in). Glossy paper; cut. CL.35-0391-7. JSL. Price ca US $90.

Cont: 1/2tp; tp; publ data; edit pref; intro by Baldini; pls tp; pls; catalog; biblio(p 341-2, ca 90 entries); names index; ills index; general index; print data.

This splendid work should be consulted simultaneously with GIUSTI, A M, et al, *Il Museo Dell'Opificio*... which also deals with Florentine pietre dure work but contains technological & material information which complements the purely historical & descriptive information in the present volume. Concerns the collections, large and small, or even isolated pieces of pietre dure work or its offshoots, which may be found in the City of Florence; all of the pieces are depicted, described and historical notes given as to artisans responsible for their design, patrons, etc. All of the photographs are of high quality and depict broad views of chapel interiors, table-tops, panels, individual small pieces of inlay, and even examples of in-the-round sculpture which employ numerous carefully fitted together stone pieces of contrasting color and texture to achieve particularly intriguing effects and possibly providing the ancestral models to the similar pieces executed in modern times by the celebrated house of Fabergé in Russia. The bibliography provides magazine articles as well as independent works but the latter are unpaged and no comments are furnished as to content.

315. BALDWIN [possibly GEORGE BALDWIN(?1743-1826) in DNB] Collection of Gems. -"Recueil des pierres gravées. - s.l. n.d., in-4, avec 54 pl. Ouvrage resté inachevé et non mis dans le commerce; il est rarissime. Son auteur exerçait les fonctions de consul en Egypte." Vinot, 1662. Not seen.

315-A. BALDWIN, CHARLES Colorado Gem & Mineral Collecting Localities, vol 1, 40 p, 18 maps, 1979. Paperback. $4.95. Not seen: F H Pough, *J C K*, Aug 1982, p 298 "Any collector who needs Colorado information should certainly go into the field with this guide."

316. BALEJ, RONALD J Gem Cutter's Guide... A Valuable Manual On Grinding · Sawing · Polishing · Lapping [Wrap title; Minneapolis: Minnesota Lapidary Supply, Inc., 1963]

Centerstapled: 43, [1 blank] p; 26 figs, 6 tabs. Heavy col wrap. 25.4 x 17.6 cm(10 x 7 in). Cut. $1.50. JSL

Elementary instructions, mostly for cabochons; some discussion of faceting, flats, spheres.

317. -----1963 Tumbler's... Guide a valuable manual on all phases of the art of rock tumbling [Wrap title; same publ.]

Centerstapled: 43, [1]p, 8 figs, 8 tabs. Same size. $1.25. JSL.

History of the art, some gemstone properties, choosing a tumbling machine, operation, abrasives & powders, etc, followed by step-by-step instructions, tables of weights, size of rock particles, speeds, table of hardness, suggested "tumbling logbook."

318. BALFOUR, IAN, also IAIN

Notes On Famous Diamonds | [faceted gem] | By Ian Balfour [London: priv publ?; nd, post 1959; wrapper title].

Edgestapled: [3], [1 blank], 17, [1 blank]p; pale green wrap, cover title. 25.5 x 20.4 cm(10 x 8 in). Cut. JSL. Data on 35 gems, including Niarchos and Williamson.

319. -----1962?

Famous Diamonds | by | Iain Balfour [London: De Beers Consolidated Mines Limited, post 1962]

Centerstapled: [1], 35p(pag begins on back of title in reverse of usual order). V heavy paper wrap, black front cover with cut gem, white title; white back cover with publ data; Cullinan rough photo inside front cover. 22.9 x 17.7 cm(9 x 7 cm). Cut. JSL.

Cont: tp; tab cont; text. Describes 46 gems.

320. -----1966?

Famous Diamonds By Iain Balfour | De Beers Consolidated Mines Limited [London: post 1966]

Centerstapled: 28p, 19 photos. Heavy white paper wrap, photo of Wittelsbach set in a jewel + title on cover. 30.1 x 20.7 cm(11 7/8 x 8 1/8 in). Cut. JSL. Much more lavish production: 50 gems, many shown set in jewels.

321. -----1962. How diamonds reach you. London: De Beers Consolidated Mines, Ltd., 18p, not seen.

322. ----- 1979-88 Famous diamonds of the world. *Industrial Diamond Quarterly* (INDIAQUA), De Beers Industrial Diamond Division,London, Engl. Arts I-XXXIV, in Nos 20-47, 49, 1979(3rd qtr)-1988(1st qtr). Arts average several pages, ills in b&w and col. Essentially same transferred to and publ in bk form as below.

322A -----1987

Famous | Diamonds | Ian Balfour | Collins | 8 Grafton Street, London W1X 3LA [1987] [title partly enclosed in single-rule frame]

8°: 224 p; 82 col photos, 85 b&w photos & figs. Black, cloth-type paper over bds, silver spine lett, black endp; black dj, col photos on covers, flap vita & resume with portr of author. 27.5 x 21,8 cm(10 3/4 x 8 5/8 in). Cut. ISBN 0 00 412246 1. JSL.

Cont: 1/2tp; front col photo; tp; dedic & publ data; tab cont; fwd; pref; introd; text; tab largest cut diamonds; ackn; gloss; biblio(p 222, ca 70 entries); index.

Balfour's major literary work, embodying years of research and procurement of many fine illustrations of stones never before published, and with portraits of famous persons and places connected with the stones. Balfour's career position in the center of the diamond industry in London and his personal as well as business connections enabled him to assemble information on many of the diamonds which cannot be found in any other similar work, There is a laudatory foreword by Harry Oppenheimer, while the author's preface explains how his interest in famous diamonds was early aroused and led to writing of numerous articles as noted above, but the present book stemmed from a request by the editor of *Indiaqua*(De Beers' Industrial Diamond Quarterly) to write a series of articles for that journal which here are joined with other information to form the present work. A useful introduction provides a concise history of man's encounters with diamond from antiquity to the present. The main text consists of descriptions, historical notes, and anecdotes about 75 famous diamonds from the Koh-I-Noor to the Premier Rose, but not arranged in any particular order so far as I can determine. Another 25 stones of lesser importance are furnished with shorter notes, and next follow a large table of the largest cut diamonds, a glossary, and a bibliography, the last suffering (as usual) from absence of paginations for the entries. This work is not encyclopedic, especially in regard to romantic tales associated with certain stones, and thus if readers need such information they must refer to other treatises as well. For the present, however, this is the premier work on the subject and should remain so for many years.

323. BALITSKY, V S Synthetic amethyst: its history, methods of growing, morphology and peculiar features. *Zs Dt Gem Ges* 29, 1/2, 1980, p5-16, 9 fig, 15 ref. JSL.

324. BALITSKY, V S & LISITSYNA, E E Sinteticheskie analogi i imitatsii prirodiykh dragotsennykh kamnei. [Synthetic counterparts and imitations of natural precious stones.] Moskva: Nedra, 1981, 157p, ill(col). R 1.20. Rev: M J O'Donoghue, *J Gemm* 17, 8, 1981, p640. Not seen. "Completely new survey ... bibliography of 410 entries... all the major stones... long section devoted to the manufacture of quartz."

BALL, SYDNEY HOBART (1877-1949)

Geol training U Wisconsin, AB 1901, PhD 1910; geologist Missouri BuMines; instructor geol U Wisc; geologist, US Geol Survey 1903-7; from 1909 consultant; widely traveled, wrote many articles, both technical and popular, esp on gems, precious stones, gem history. Biogr *G & G*, Fall 1936, p 58; obit, *ibid*, 6, 5, 1949, 160-61, portr; *Proc GSA*, 1949, 1950, p 113-14, portr.

325. -----1925-48 Diamond Industry articles. Under general title "The Diamond and the Diamond Industry" annual articles, mostly in *JCK*; each ca 15p; the last I have a record of is 23rd ann rept, 25p reprint, ills, from *JCK* 1948. Similar arts in *The Gemm*, London, from vol 1, no 10, 1932, p 299, continuing intermittently to vol 9, no 100, 1939, p 52-4.

326. -----1931 Historical notes on gem mining. *Economic Geology*, 26, 7, 1931, p 681-738, 4 fig, tabs. Also sep issue.

Important historical study, still much referred to, tracing history of gemstones, mining, production, distribution, valuation, uses, etc, from Stone Age to present. First tab provides chronology of first known uses from ca 100,000-75,000 BC, and indicating which materials were used by the various cultures up to a final entry(kornerupine) for 1911. Another tab describes gemstone materials used by American Indian. A third tab, highly detailed, provides world-wide chronology of gem mining from 7,000 BC(Baltic amber) to 1927(S African emerald). Also provided: history of major gem fields for diamond, sapphire, beryls, spinel, spodumene, tourmaline, peridot, chrysoberyl, topaz, garnets, turquoise, lapis, jades, opal, quartzes, amber, and several other lesser gemstones. Abundantly footnoted. First modern study of such scope.

327. -----1934-49 Precious and semiprecious stone articles as chapters in *US BuMines Minerals Yearbook*, 1934, pt 3, 1934, p 1079-96, publ thereafter annually with title change to "Gemstones" to a submission for 1948, dated 1949. Ca 12-15 pages each.

328. -----1935 The Diamond. *Fortune Mag*, NY, May 1935, p 66-74, 124-39 *passim*. *Ibid*, Diamond Cutting, June, p 96-107.

329. -----1935 A historical study of precious stone valuation and prices. *Econ Geol*, 30, 6, 1935, p 630-42.

329A.----1937 Precious Stones. Ch XVI, p 303-32, in *Industrial Minerals And Rocks (Nonmetallics Other than Fuels)*. Edited by Committee On The Industrial Minerals Volume, New York, The American Institute of Mining and Metallurgical Engineers,

1937. Succinct, informative survey, drawn from high quality sources: general remarks on gemstones, uses, distribution, occurrences, political and commercial controls, exploration, mining and processing, followed by discussions of diamond, beryls, chrysoberyl, spinel, spodumene, opal, topaz, peridot, tourmaline, zircon, garnets, turquoise, jades, lapis, amber, quartzes and feldspars. Most space devoted to diamond.

330. -----1949 Same, 2nd edit, completely rev. Ch 35, p 714-47, of *ibid*, New York, 1949. Brought up to date, esp for diamond with valuable graph showing diamond production trend, 18th century to present.

331. -----1938 Luminous gems, mythical and real. *The Scientific Monthly*, 47, 1938, p 496-505. Examines references to gemstones purporting to glow in the dark for various reasons, and those gemstones known to emit light due to thermoluminescence or irradiation; numerous citations from ancient authorities but publications not identified.

332. -----1941 The mining of gems and ornamental stones by American Indians. Anthropological Papers, No.13, Smithsonian Institution, *Bureau of American Ethnology Bulletin* 128, p xi-77. United States Government Printing Office, Washington, 1941. Separate: 16°, glossy pl(Bull 128, Pl 1) + [1]f tp tip-in + p ix-xii + 77p + [1 blank]p + [1] glossy f bearing Bull 128 pls nos 2 & 3 + Bull 128 pls 4 & 5(sketch maps, on thin paper, fold). Green paper printed wrap. The several gatherings are edgestapled with wrap cemented thereto. Tab 1 fold & inserted between p 54-5.

Cont: front pl; tp; series tp; tab cont; introd; text; list of mines; biblio(p 59-77, 357 entries); blank p; pls.

Highly interesting and valuable study of 84 stones mined by American Indians at 289 recorded sites. Discusses Indian interest in stones, methods of mining and fashioning, mining laws, trade, individual gemstones(how mined, uses, localities). Folding maps show approximate sites. Rev R Webster, *The Gemm*, 11, 132, 1942, p 67: an extensive subject covered with a completeness unexpected in a small volume."

333. -----1950.

a Roman Book | On Precious Stones | [orn] | Including an English | modernization of the | [orn] 37th booke of the | Historie of the World | by | C.Plinius | Secundus [seal] | by Sydney H. Ball [Los Angeles: The Gemological Institute of America, Inc., 1950]

Entire title drawn rather than set, with a ruined column at left, a scroll with a seal showing Pliny and his name, and ruins of the Coliseum at bottom. This same appears on front cover.

8°: XII, 338, [2 blank]p; p[109] facsimile of Holland's tp of London edit of 1601; thereafter, to p 200, all text on pale tan paper, each page ornamented with a scroll enclosing text; many ch orns. From p [201], normal white paper. Pale tan cloth, tp on cover in brown & gold; brown orn & gold lett spine. 22.9 x 15.3 cm(9 x 6 in). Cut. $6.75. JSL. LC 50-13551.

Cont: 1/2tp; tp; publ data; pref; fwd; 1/2tp; tab cont; text tp; 1/2tp; text in 3 sects, each with ch numbered in text but not given in tab cont; index; blank f.

Published posthumously from materials assembled and edited by Kay Swindler of the Gemological Institute staff but her services not mentioned. Ball states(pref): "rightly or wrongly, I have for some years felt that the outstanding classical book on precious stones, the 37th book of Pliny's Natural History, has never been edited by one well versed in the lore of precious stones." With this goal in view, Ball provides an excellent study of Pliny's book on gemstones, basing it on Philemon Holland's London translation of 1601. D E Eichholz, in his translation of the same chapter, (Loeb Classical Library, which see), comments that Ball's work "contains a translation... with introductory chapters and a commentary, but the commentary is affected by the translation, which is merely a modernization of Philemon Holland's version." This statement may lend the impression that Ball's book is trivial, which it is not, and while there may be some merit in Eichholz's remark, the fact remains that Ball's translation and commentary, plus his introductory material, contains so much valuable information that one can look in vain elsewhere to find an equivalent fund of Plinian gemological knowledge. Furthermore, unlike Eichholz, Ball's vast experience makes his comments and even his speculations perhaps more worthy of serious attention than those of Eichholz.

The book is divided into three sections, with 15 introductory chapters, the translation, and the commentary. In the first section are treated such topics as Pliny himself, the authorities cited by him, his expertise in mineralogy and gemology, contemporary Roman jewelry, jewelers and lapidaries, sources of gemstones (with table), a historical summary of ancient commerce in gemstones, values and rankings of gemstones in Pliny's day, gem mining, falsifications, and, importantly, attempts to correlate gemstones mentioned by Pliny with modern species and varieties (also with tables). The second part is the translation, specially decorated and printed upon tan paper. The third part, by far the most extensive, is the commentary and contains a wealth of ancillary information as well as discussions of etymological problems and obscure passages. While nearly all of the book is based on Pliny's 37th book, Ball also adds Holland's translation of the chapters of the 36th book wherein are treated gagates-(jet), and obsidianus(obsidian). Rev R Webster, *The Gemm*, 19, 230, 1950, p 211-12, "a volume built up on much painstaking research and contains the correlated information of years of work by one who understood gemstones;" also R Webster, *J Gemm*, 2, 7, 1950, p 317-9; P Jordan Smith, *G & G*, 6, 9, 1950, p 323.

BALL, S H, see INDUSTRIAL MINERALS AND ROCKS

BALL, S H, see KRAUS, E H, et al, 1942, 1946

BALL, VALENTINE (1843-1895)

Grad Trinity Coll, Dublin 1864, entering service Geological Survey of India same year where he spent 17 years to 1881; after retirement to prof mineralogy, geology U Dublin; two years later to Director, Science and Arts Museum, Dublin; LL D (Hon) U Dublin, 1889. Obit, *Geol Mag* London, ns, 2, 1895, p 382-3.

333A. -----1874 On the building and ornamental stones of India. *Records of the Geological Survey of India*, Calcutta, 7, 1874, p 98-122. Written upon request of Professor Edward Hull(1829-1917) who wanted information for his forthcoming book on such stones; however, the latter was published in 1872(which see) without Ball's contribution. General remarks on stone uses, structures, properties, durability, industry, etc, with specifics on deposits of granites, gneisses, basalt, serpentine, steatite, marble, gypsum, alabaster, limestone, sandstone,

quartzite, laterite, slates and ornamental stones(p 109-110), the last mentioning the Taj Mahal at Agra and its famous stone inlays of lapis, chalcedonies, marbles, slate, and nephrite.

334A. -----1880 On the mode of occurrence and distribution of diamonds in India. *J Roy Geol Soc of Ireland*, 6, pt 1, ns, 1880-81, p 10-48; also in *Proc Roy Soc of Dublin*, 2, ns, 1880, p 551-89. JSL. Excellent, richly detailed, with historical notes, diamonds in India, deposits & geology as then known, uncertain origin of the diamonds, localities, diamonds found, exceptionally large stones, qualities, etc. Thoroughly referenced. In the same journal, p 69-70, additional notes by him on certain obscure diamond localities, ie, Raolconda, Gani or Coulour, etc (see next art).

334B. -----1881 On the identification of certain diamond mines in India which were known to and worked by the ancients, especially those which were visited by Tavernier. *J Roy Asiatic Soc of Bengal*, Calcutta, 50, pt 2, 1881, p 31-44, 217-23. JSL.

335. -----1881

The | Diamonds, Coal And Gold | Of | India | Their Mode Of Occurrence And | Distribution | By | V. Ball, M.A., F.G.S. | Of The Geological Survey of India | Author Of | "Jungle Life In India; Or, The Journeys And Journals Of An | Indian Geologist" | London | Trübner & Co., Ludgate Hill | 1881 | All rights reserved

8°: viii, 136 p. Brown cloth, blind-rule borders; gold rules, lett on spine. Pale gray or pale yellow endp. 16.4 x 10.5 cm(6 1/2 x 4 1/8 in). Cut. Price 5s. BM(NH); GS 17-328.

Cont: 1/2tp; print data; tp; pref; tab cont; text; append. Diamonds in first chapter, p 1-57, coal in the second, and gold in the last. The appendix, p 130-6, discusses possible identity of Great Mogul diamond with the Koh-I-Nur and includes a note on a mythical method of winning diamonds as told by Marco Polo in his *Travels*. The chapter on diamonds is a valuable compilation of all facts that Ball could find on the Indian deposits and the stones found in them, which data were transferred into his later translation of Tavernier's *Voyages*, which see. He describes diamond districts, geology, possible origin of diamonds, and specific deposits with locations and prospects of success if mining were taken over by Europeans. The Preface notes that "three of these Papers...were first published in the journals of the learned societies," that is, in the *Report of the British Association for 1879, J of the Scientific Proc of the Roy Dublin Soc*, and *J of the Roy Geol Soc of Ireland* for 1880.

336. -----1881

A Manual | Of | The Geology Of India. | Part III. | Economic Geology, | By | V. Ball. M.A., F.G.S., | Officiating Deputy Superintendent, Geological Survey Of India. | [rule] | Published by order of the Government of India. | [rule] | Calcutta: | Sold At The | Office Of The Geological Survey of India; | And By All Book-Sellers. | London Trübner & Co. | [rule] | MDCCCLXXXI. | Price Rs.5. [1881]

8°: xx, 663p; fold, part col map front(political divisions, India & Burma) bound-in; 3 part col geol maps(1 fold) bound-in; 2 part col fold geol maps bound-in at end of text; 10 litho pls bound-in; 2 text woodcuts. Sepia cloth, orn black-rule frames, that on front cover enclosing ornate gilt lett & cut of Great Mogul diamond; gilt rules, lett spine. Brown endp. 24.5 x 16.9 cm(9 5/8 x 6 5/8 in). Cut. JSL. GS 15-553.

Cont: fold map; tp; publ data; part tp; pref; tab cont; ill list; introd; errata slip; 16 chs; appends A-G; 2 fold maps; subj index; localities index; blank p.

While including all earth & rock products, minerals, etc, much is also provided on gemstones, making this book a valuable reference even today. Special interest: Ch 1, pl-50, on diamond in India, with historical remarks, mining methods, localities, etc, and with colored geological maps of the Karnaul, Kistna, and Panna districts. Burmese amber: p 57-8. Ch IX briefly describes and furnishes localities for ruby, sapphire, spinel, turquoise. Ch XIII on quartz and its varieties, p 502-14 is especially informative. Ch XIV includes nephrite & jadeite, also beryl & emerald, garnet, zircon, lapis lazuli, and topaz. Highlights include the large chapter on diamonds in India, and also a richly detailed section on the mining, sorting, heat treatment, sale, and lapidary treatment of quartz gemstones, taken from an article first published by Ball in the *Bombay Journal*; this article describes what may be the first use of tumbling to round and polish gemstones in leather bags. Appendix F, p 636-9, lists native terms for minerals and gemstones and is the only one that I know of for India. Appendix E, p 596-635, bibliography, with many entries for gemstones.

BALL, V, see TAVERNIER, J B, 1889, 1925.

337. BALLENSTADT, JOHANN GEORG JUSTUS(1756-1840) Zur Naturgeschichte des Bernsteins. In: *Archiv für die neuesten Entdeckungen aus der Urwelt*, Quedlinburg u Leipzig, 1823, Bd 5, H 1, p 3-40. Survey article on amber: nomenclature, properties, theories of origin, sources, Baltic deposits, insect remains and "nests" in amber, etc. USGS Kunz Coll GS 34-755.

BALSER S, CARLOS

Central American archeologist, specializing in Pre-Colombian jade artifacts.

338. -----1953. El jade precolombio de Costa Rica. Not seen.

339. -----1958

Carlos Balser [underline,sic] | El | Jade | [rect col photo of jade carvings cemented to wrap within gold-printed frame] | Precolombino | De Costa Rica | Libreria E Imprenta | Lehmann | San Jose, Costa Rica | 1958

Wrap title; priv published.

Edgestapled: 18, [1], [1 blank]p + [9] glossy photo f bearing 85 numbered objects and 4 unnumbered on last f. Pale gray wrap, blue title on cover plus col ill noted above; back cover print data. 27.6 x 21.4 cm (10 7/8 x 8 3/8 in). Cut. JSL.

Cont: 1/2tp; prologue; text; refs(p 16, 19 entries); suppl; pls title; pls.

Handsome, well-produced pamphlet with very good color photos but the b&w photos are rather poor and sometimes so pale that contrast is lost. Discusses jades of Central America, cites Sahagún and gives his definitions for about two dozen Indian gemstone terms but these refer only to color and many of the stones cannot now be identified. Also discusses carving

types, jade working, uses of jades, possible significance, and other aspects of Indian jade lore.

340. -----1974

Carlos Balser S. | El Jade De Costa Rica | Un Album Arqueológico con Reproducciones en Color | Textos en Español e Inglés con 1 mapa. | An Archaeological Picture Book with Color Reproductions | Texts in English & Spanish - with 1 map. | -1974- | Prohibida la reproducción parcial o entera, salvo previa | autorización del autor. [San José, Costa Rica, priv publ]

8°: [2], 88, [2]p; front sketch maps, 40 col photos. Heavy blue-green wrap, pale green, white, black lett; central jade photo on cover; similar spine lett & on back cover. 22 x 14 cm(8 5/8 x 5 1/2 in). Cut. Press run 3,000. U S $6. JSL.

Cont: blank p; maps; tp; ackn; introd; 4 chs; biblio(p 85-8, 59 entries); publ data; blank p.

P 2: "This is the first time that an archaeological picture-book in color of the pre-Colombian Jades has been printed in Costa Rica." It is a handsome book, with the introduction giving basic facts on jade, jade in Costa Rica, styles & decorations in the artifacts, dating, centers of manufacture as in the Guanacaste region of the Pacific coast and at various places on the Atlantic slope, lapidary methods, tribes, and local jade collections. The text takes up type objects in jade incorporating foreign style elements, jades with Maya elements, Costa Rican jades in the Guanacaste style, and jades typical of the Atlantic slope areas. Color photos depict from one to eight objects: statuettes, animals, birds, insects, geometrical forms, plaques, tubes, and small implements. There are no size scales nor dimensions given anywhere! There appear to be a large variety of hues in the jadeites, and it is further apparent that on stylistic grounds these artifacts differ considerably from those found elsewhere in Meso-America. A remarkable object, said to be lapis lazuli, is portrayed on Pl 39, p 83, and indeed looks like this material. The frontispiece maps show sites in Meso-American and Costa Rican areas where jade artifacts have been found. Most bibliographic entries are from the past several decades, none are paginated.

BALSER S, C, see LOTHROP, S K, 1961.

341. BALTRUSAITIS, JURGIS Aberrations; quatre essais sur la légende des formes. Paris, 1957. According to Edward H. Schafer, *Tu Wan's Stone catalogue of Cloudy Forest*, 1961, p 10 footnote, Baltrusaitis' work, p 47-72, contains "pierres imagés," or a study of jaspers, marbles and agates with shadows of the visible world in them, while Roger Callois, *The Writing of Stones*, p 25-6, which see, remarks on the same passage and further notes that figures 30, 31, 35, and 39 depict examples of scenic stones, and that Baltrusaitis "gives many examples of public and private collections which contained such items [ruin or landscape marble, from nr Florence, Italy], polished, mounted on slate, and set in often luxurious frames. There is no doubt that they were regarded as genuine works of natural art." B not seen.

342. BALYASHKO, E G & GRUM-GRZHIMAILO, S V Okraska korunda i metody ee issledovaniya. *Trudy Instituta Kristallografii Akademiya Nauk SSSR*, Moskva, vypusk 8, 1953, p 111-28, 12 fig. Absorption spectra(illustrated) of corundums colored by Cr, Fe, Co, Ni, V, Ti, Mn; 15 refs. Not seen.

343. BAMFORD, FRANCIS & BANKES, VIOLA

Vicious Circle | The case of the missing | Irish Crown Jewels | [orn rule] | Francis Bamford and Viola Bankes | Max Parrish · London. [1965]

8°: xi, [1 blank], 212 p; text fig; center gathering of 4 glossy f bearing 11 photos. Blue paper over bds, silver lett spine & rules. 21.75 x 14 cm(8 1/2 x 5 1/2 in). Price 22s.

Cont: 1/2tp; tp; publ data; tab cont; ill list; quotes; fwd; text in 5 "books," each with chs; postscript; index.

Events leading to disappearance of the jewels from Dublin Castle in 1907; never recovered; details on the jewels themselves meager.

BANCROFT, PETER (1926-)

B Tucson, AZ; AB U Calif Sta Barbara; MA USC; PhD Colo State U; mineral collector, traveler, author.

344. -----1984

Gem & Crystal | Treasures | Peter Bancroft | Author: The World's Finest Minerals And Crystals | Published By | Western Enterprises [logo] Mineralogical Record [Fallbrook, CA, 1984; white title overprinted on a fullp color photo]

8°: 488 p; ca 650 b&w photos, 220 color photos; col doublep sketch map of world. Black, cloth-like paper over bds, gold lett title with gold crystal on cover; gold lett spine. Col photo endp. Dark blue dj, col photos both sides; flap resume; picture captions, author vita with portr. 28 x 23.3 cm(11 x 9 1/4 in). Cut. $60.00 ISBN 0-9613461-1-6;LC 84-50848. JSL.

Cont: tp; pref; tab cont & publ data; prologue; text; world map; ackn; biblio(p 478, ca 200 entries); general index; mineral index; 2 col photos & captions.

One hundred classic localities were visited by the author which produced or still supply splendid mineral and/or gem specimens. Fascinating, eminently readable because of emphasis placed on the human side of mining, the miners, collectors, and others involved or associated with the places covered. No geological information is supplied on type deposits nor much in the way of details on mineralogy or on deposit origins; the work is very largely pictorial employing many black-and-white photos of considerable age which the author has painstakingly located and acquired for use. With these photographs, the book becomes a valuable pictorial archive on that basis alone. Many specimens are depicted in modern color photography and illustrate cut stones and carvings as well as mineral specimens in their natural state. Remarks, usually very brief, provide a few historical details and anecdotes upon each of the 100 chosen localities. The gemologist will be pleased to find a great many important gemstone-producing sites included, eg, tourmaline from Maine, California, Elba, Mozambique, Madagascar, Brazil, Ural Mountains, and so on, not to mention deposits of gem beryl and emerald, corundum gems as from Sri Lanka, Mogok, and Yogo Gulch, also localities for kunzite, precious opal, purple apatite, benitoite, rhodochrosite, and others. Rev P E Desautels, *R & M*, 59, 6, 1984, p 287-8 & *Min Rec*, 15, 6, 1984, p 373-4. See also "Gem & crystal treasures: the story behind the book," by Bancroft, *Lap J*, 39, 9, 1985, p 26-37, ill. Also rev M O'Donoghue, *J Gemm*, 19, 8, 1985, p 733.

345. -----1984. Same, full leather, edition limited to 300 copies. Tan, waxed leather, crossed miner's picks in brown, 6

raised bands set off with brown bars; red leather spine label, gilt lett. Same p size. Presentation leaf inserted ahead of title leaf with spaces for recipient's name, author's signature, copy number. $230.00.

BANDY, MARK CHANCE (1900-1963)

B Redfield, Iowa; BA Drake U, Des Moines 1922; MA, geol Columbia U, 1925; EM(engineer of mines) 1926; PhD Harvard U 1938; entire career as mining geologist, widely traveled, esp South America). Bandylite, a hydrous copper borate mineral named after. Obit B Mason, *Proc GSA*, 1964.

346. -----1924

Corundum Gems | by | M.C. Bandy | Submitted in partial fulfillment of the | requirements for the Degree of Master | of Arts in the Faculty of Pure | Science, Columbia | University. | 1924 [Priv publ]

Typescript, reproduced: [2], 95 f, 3 sketch maps, table. 27.9 x 21.8 cm(11 x 8 1/2 in). JSL.

Only a few copies of this interesting and informative paper were distributed by the author and no part has been published. Curious lore, famous cut stones, localities, deposits, genesis, artificial production. Appendix p 86-9, glossary of terms applied to corundum gems and analyses from the literature; biblio(p 89-95, 132 entries).

BANDY, MARK CHANCE & BANDY, JEAN A, see AGRICOLA, *DE NATURA FOSSILIUM*

347. BANERJEE, A Ein Beitrag zum Thema Türkis. *Zs Dt Gemm Ges*, 21, 2, 1972, p 186-102, 11 fig, 16 ref. Remarks by G Hübner, *ibid*, 21, 3, 1972, p 150-1. Investigates properties of commercially available turquoise in order to aid distinction of fakes or altered materials.

BANK, HERMANN, Dr

German gemologist, studied gemology universities of Heidelberg and Mainz; owner of a lapidary establishment in Idar-Oberstein.

348. -----1961 Smaragdvorkommen in Kolumbien. *Zs Dt Ges Edelsteinkunde*, 34 1961, 16 p, ill. Not seen.

349. -----1965 Lichtbrechung, Doppelbrechung, Dispersion, Dichte und Gitterkonstanten bei Turmalinen. *Zs Dt Ges Edelsteinkunde*, Sonderheft Frühjahr, 1965. Centerstapled: [2], 32 p, 16 fig, printed wrap, cover title. 21 x 14.9 cm(8 1/4 x 5 7/8 in). Cut. JSL. Properties determined on many specimens of tourmaline, particularly those of gem quality; property relationships to each other and to lattice constants plotted graphically. Much useful new data introduced.

350. -----1966

Edelsteine | Systematik Und Beschreibung · Mit 32 Farbtafeln | [rule] | Precious Stones | Classification And Description · with 32 coloured Plates [Idar-Oberstein: Verband der Edelstein- und Diamantenindustrie e.V., 1966]

"The coordination of the subject matter as well as the accompanying text is the work of the well-known Gemmologist Dr. Hermann Bank." Engl transl by U Lamberti & R A Sinclair. Parallel Ger /Engl texts.

Cementb: 31, [1 blank]p, 32 glossy col pls cemented between p [10]-11, printed recto only. Black cloth, gold titles on cover. 29.4 x 20.7 cm (11 5/8 x 8 1/8 in). Cut. Leaves loosen readily. JSL.

Cont: tp; introd; lapidary treatments; classification; blank p; col pls; arrangement of pls; descriptions; blank p.

Popular presentation of splendid color plates, tied together with a very brief text; treats the materials according to current mineralogical classification, ie, elements (diamond), oxides (quartz), carbonates, phosphates, silicates, massive materials, and including the organics amber, coral, and pearl. Most of the plates are faultless in terms of accuracy of color, sharpness, etc, but those depicting white, colorless, or faintly colored materials are considerably poorer due to lack of contrast. This edition also issued in black paper wrap and also as separate sheets in a black paper portfolio which contains a centerstapled text pamphlet of 31 pages of the same size as the plates.

351. -----1966 Spec edit, Julius Petsch, Jr. Identical but leaf bearing fwds, p 3-[4] omitted and replaced with presentation leaf, in Ger & Engl, from the company; this is followed by two glossy f bearing 6 col photos showing scenes in Brazil and East Africa and one photo of a gem cutter at work. JSL.

352. -----1966, another edit

Edelsteine | Systematik Und Beschreibung | (mit 32 Farbtafeln) [black arrow] | [rule] | Precious Stones | Classification And Description | (with 32 coloured plates) [black arrow] | [Apparently publ by Schafer & Schmidt KG · 6382 Friedrichsdorf (Taunus) Germany, 1966]

Similar to portfolio above, but title reset on pamphlet, different ink used, in heavy white glossy paper portfolio, with original color pl of dj on cover. Rev: *Zs Dt Ges Edelsteinkunde*, 60, 1367, p 40-1. JSL.

353. -----1968, 2nd edit of above, revised & supplied with text and new title

Edelsteine und Mineralien | Wissenschaftliche Systematik Der Mineralogie | Und Beschreibung Aller Edelsteine | Mit 32 Ganzseitigen Farbtafeln | Text Von Dr. Hermann Bank, Idar-Oberstein | [publ logo] | Alles + Brillant · Friedrichsdorf [1968]

Cementb: 2° sheets: 125, [1 blank]p; 32 glossy col pls(24.4 x 19.1 cm) tip-ons. Turquoise cloth, interwoven with brown threads, unfinished; gold title in script on cover; gold title & monogram spine. Col dj, photo of Brazilian zeolite specimen on cover with script title; resume, reviews. 29.2 x 23.5 cm(11 1/2 x 9 1/4 in). Cut. Dm 32.80. Cardbd slipcase, covered with cream paper, gold diaper pattern overprint. JSL.

Cont: 1/2tp; tp; publ data; fwd; introd; descriptions; lapidary treatments; mineralogy systematics; subject index to pls; index; blank p.

Essentially same as first edition but text rearranged, slightly changed, and the tourmaline plate, no 32, now exchanged for the former plate which had a bicolor tourmaline crystal & cut gems. Rev R Metz, *Der Aufschluss*, 19, 9, 1968, p 246-7.

354. -----1970, Engl edit

Precious Stones and Minerals | Text By Dr. Hermann Bank of Idar- Oberstein, | Centre Of The German Diamond And

Gem Industry | Frederick Warne & Co Ltd | London And New York [1970]

Identical pag, pls, etc., no cover title; col dj now depicts precious opals in col. Same slipcase. ISBN 0 7232 0998 7. £9.00. Series of facet cuts shown on p 119. JSL.

Straightforward transl, presumably by Bank. Rev P B Lapworth, *Austral Gemm*, 11, 6, 1972, p 23; also by J H Oughton, *ibid*, 9, 1973, p 21; C Rogers, *Gems*, 3, 1, 1971, p 30.

355. -----1970, Swedish edit

Hermann Bank | Ädelstenar och mineral | En Systematisk Beskrivning | Översatt Och Bearbetad Av | Henno J. Nairis | Generalstabens Litografiska Anstalt [No place, Stockholm?; 1970]

Essentially ident to the Ger edit, but fwd by Nairis, the translator. Same cloth, etc., but title on cover in Swedish, also on spine, in gold. Same col pl for dj; back dj bears reviews. Same slipcase. JSL.

356. -----1968

Von Edelsteinen | und Perlen | von | Dr. Hermann Bank | Pinguin Verlag Innsbruck/Tirol | Umschau Verlag Frankfurt/Main [1968]

In series "Taschen- und Bestimmungsbücher"

8°: 71, [1 blank]p + [l]p advert on inside back flyleaf; 24 fig, 25 col photos. Glossy col paper over bds, amethyst stalactite on cover, pearls & abalone shell back cover; white spine with black lett. 14.8 x 10.6 cm (5 7/8 x 4 1/8 in). Cut. DM 5.40. JSL.

Cont: tp; publ data & ackn; tab cont with index of stones; introd; text; biblio(p 71, 16 entries); blank p; advert.

Brief, accurate introd to gemstone for the layman: properties, uses, lapidary treatments, classifying, mineral & organic gemstones, manufactured gems & distinction of same, valuation, purchases, lore. Color photos of considerable compositional artistry & excellent quality.

357. -----1971

Aus der Welt | der Edelsteine | Dr. Hermann Bank | Pinguin Verlag, Innsbruck/Tirol · Umschauverlag Frankfurt/Main [1971]

Cementb: 191, [1]p, 113 col photos on 32 glossy f, ca 65 line drawings, 5 maps(l doublep). Tan, brown-flecked unfinished cloth, brown facet gem on cover; brown spine lett. Col dj, blue aqua crystal on front; jewel crown on back; vita, adverts. 23.8 x 17 cm(9 3/8 x 6 3/4 in). Cut. DM 48.- JSL.

Cont: tp; publ data; dedic; tab cont; introd; text; biblio(p 187, 38 entries); index; conclusion.

Splendid color photos; surveys factual knowledge of gemstones, uses, and lore, but very wide scope prevents text from being more than a terse coverage. Topics include gemstone origins, type deposits, prospecting & mining, treatment, properties & special features of gemstones, descriptions of a large number of species and varieties, also organics, lapidary work, color changes, some famous diamond histories & other notable gems, imitations, identification, curious lore, world occurrences, etc. Lengthy rev in *Zs Dt Gemm Ges*, 20, 4, 1971, p 177-9, "if a prize were to be awarded for the most significant new book on gemology it would surely go to this one and its author." Other reviews: R Metz, *Der Aufschluss*, 23, 3, 1972, p 106-7; M O'Donoghue, *J Gemm*, 13, 2, 1972, p 77-8, "a very fine book."

358. -----1973, same, Engl transl, by Dr E H Rutland(1908-1975)

From the world | of gemstones | Prof. Dr. Hermann Bank | Pinguin-Verlag, Innsbruck, Tirol. Umschau-Verlag, Frankfurt am Main [1973]

Cementb: 178, [1 blank], [1]p; same ill, cover, dj, etc. JSL.

On p[2] appears a cemented rectangular label stating "English translation by Dr. E.H. Rutland," which fact appears nowhere else in the book.

On the whole, an excellent translation with a few minor liberties here and there and sometime a bit of amplification or insertion of additional adjectives. Rev *G & G*, 14, 5, 1973, p 152-3, "as lively a set of color plates as we have encountered in a book on gemstones;" R L Burns, *Austral Gemm*, 12, 3, 1974, p 102.

359. -----1977

Mein kleines | Diamantenbuch | Prof. Dr. Hermann Bank | Pinguin-Verlag, Innsbruck | Umschau-Verlag, Frankfurt/M. [1977]

8°: 85, [1], [2 blank]p; 10 col photos on 4 glossy bound-in f; 21 fig; 4 sketch maps. Black, plastic-coated paper over bds, diamond ring photo on cover, col diamonds back cover. 14.5 x 10.3 cm(5 3/4 x 4 in). Cut. DM 7.50. JSL.

Cont: tp; ackn & publ data; tab cont; index; introd; text; concl; biblio(p [86], 31 entries); blank f.

Diminutive in size but small type enables considerable information to appear on its pages. For the layman: to "answer all possible questions when visiting lapidaries, exhibits, museums, etc., and to furnish advice when buying diamonds." Text treats definitions, mineralogy, crystallography, chemistry, properties, etc, of the diamond, origin & deposits, maps of diamond-producing regions, mining, cartels, cutting, imitations, substitutes and detection thereof, grading and evaluation of cut stones, brief histories of some famous diamonds, uses, and concluding remarks. Photographs depict cut & rough, mining scenes, colored diamonds, and the Tiffany yellow. Rev W Berdesinski, *Der Aufschluss*, 28, 1977, p 539.

360. -----1979 Edelsteine aus Brasilien. *Zs Dt Gemm Ges*, 28, 1, 1979, p 21-34, map, 64 refs. Historical review, including early literature, explorations, chronology of discoveries, then descriptions of type deposits, gem species & varieties, qualities, etc.

361. -----1981 Erzminerale als Edelsteine. *Zs Dt Gemm Ges*, 30, 2, 1981, p 71- 89, 27 col photos of cut gems, 33 refs. Ore minerals as gemstones, eg, sulfides, fluorite, oxides, carbonates, sulfates, scheelite, wulfenite, rhodonite, pyroxmangite, willemite; brief descriptions, sources, etc.

BANK, H, see SCHMETZER, K et al; also DER AUFSCHLUSS

362. BANK, HERMANN & GÜBELIN, EDUARD Das Smaragd-Alexandritvorkommen von Lake Manyara(Tansania). *Zs Dt Gemm Ges*, 25, 3, 1976, p 130-47, 22 ill(2 maps, many col photos), 2 diagrs, 23 refs. Thorough treatment: geological setting, mineralogy, properties, color characteristics, gem quality stones, sizes, etc, of emerald and alexandrite.

363. BANK, HERMANN & OKRUSCH, M Mineralogischen Untersuchungen am Alexandrit der Novellow Claims, Rhodesien. *Zs Dt Ges Edelsteinkunde*, H 61, 1967, p 33-49, 9 fig(map), 19 refs. Geology/mineralogy, with geological sketch map, chemistry, etc.

364. -----1976 Über Rubin-Vorkommen in Marmoren von Hunza(Pakistan). *Zs Dt Gemm Ges*, 25, 2, 1976, p 67-85, 12 ill(6 col), 22 refs. Deposits of ruby & spinel in marbles of Hunza region; properties, gem material, sizes, etc.

BANK MARKAZI, see IRAN. BANK MARKAZI

BANKES, V, see BAMFORD, F

365. BANNERMAN, H M The fluorite deposits of Cheshire County, N.H. New Hampshire State Planning and Development Commission, *New Hampshire Mineral Resource Survey*, Concord, 1941. Edgestapled: [1], + 11 f; title on wrap cover; mimeographed typescript. 4 fig, 3 on sep f not included in pag(map). Describes geology, mineralogy several deposits, one of which, Wise mine, yields gem quality pale green material of large size suitable for faceting. JSL.

365A. BANNERMAN-PHILLIPS, E IVY A

Amulets and Birthstones | Their Astrological Significance | By | E. Ivy A. Bannerman-Phillips [Los Angeles: Llewellyn Publications, Ltd., 1950]

Centerstapled: 61 p (first 4 p blank) + [1]p + [1 blank]f; p 57 ff are adverts. Stiff pale blue wrap, title in ornamental frame on cover; publ address in back cover frame. 21.1 x 14.8 cm(8 1/4 x 5 3/4 in). Cut. JSL. Discusses amulets, birthstones, talismans, charms, mascots, fetishes, zodiacal affinities and related topics typical of occult literature; shallow claptrap of little reference value.

366. BANNISTER, F A A relation between the density and refractive index of silicate glasses, with application to the determination of imitation gem-stones. *Min Mag*, 22, 126, 1929, p 136-54, 5 fig(graphs). Studied glasses used for making imitation gems(7 types, depending on compositions), established properties, esp RI & G, then prepared a graph(Fig 4) which later appeared in gemological texts because of its use in detection of glasses purporting to be real mineral gemstones, eg, as used in R Webster's *Gemmologist's Compendium*.

BANNISTER, F A, see JUNNER, N R

367. BANNISTER, F A & LONSDALE, KATHLEEN-(1903-1971) An X-ray study of diamonds artificially prepared by J B Hannay in 1880, *Min Mag*, 26, 181, 1943, p 315-24, Pl 10. Investigated 12 particles, claimed to be diamond, mounted on a glass slide in the keeping of the Mineral Dept, British Museum(Nat Hist), left over from Nevil Story-Maskelyne's experiments upon Hannay's material. Story-Maskelyne asserted them to be real diamonds, hence establishing Hannay's claim. This article gives a brief history of Hannay's work and that of Story-Maskelyne, also the methods used by Bannister & Lonsdale to test them. Of the twelve, 11 particles are shown to be diamonds.

368. BANTA, NATHANIEL MOORE, Editor

Nature Neighbors | Embracing | Birds, Plants, Animals, | Minerals | In Natural Colors by Color Photography | Containing Articles by Gerard Alan Abbott, Dr. Albert Schneider, William | Kerr Higley, Thomas Crowder Chamberlain, John Merle Coulter, | David Starr Jordan, and Other Eminent Naturalists. | Edited by Nathaniel Moore Banta | Six Hundred Forty-eight Full-page Color Plates | Containing Accurate Photographic Illustrations in Natural Colors | of Over Fifteen Hundred Nature Specimens | [rule] | Vol. XI - Minerals I: [rule] | American Audubon Association | Chicago [1914] [Entire title in single-rule frame]

8°: 166 p + [5] f blank except for the word "Notes;" 31 tip-in glossy col pls(one is front). Olive-green cloth, orn black frame on cover; black lett, rules on spine. 22.5 x 17.5 cm(8 7/8 x 6 7/8 in). Cut. JSL.

P [2]: "John James Audubon Edition | Limited to Two Thousand and Fifty Sets."

Cont: series tp; limited edit note; pl; tp; publ data; tab cont; vol title; ackn; 9 chs; index to minerals; index to pls; 5 "notes" f. "Chapter X "is actually the index!

A few scattered references to gemstones appear in chs 3 & 4, but the most important matter, by O C Farrington, is in Ch 5, p 37-56, and Ch 6, p 57-111. Ch 5 is a descriptive account of gemstones, beginning with the diamond and passing through most of the important species and varieties and is illustrated by 9 color plates. Ch 6 completes gemological information by discussing the nature and origins of gemstones, mining, color and other properties, cutting & mounting, valuation & pricing, imitations, and curious lore. This last contribution is footnoted to indicate that its substance was borrowed from Farrington's *Gems and Gem Minerals*, which see; it is illustrated with seven more plates. Of the 16 such plates, mostly of mediocre quality, several are from Bauer's *Edelsteinkunde* and several from Farrington, as mentioned. All text is in simple straightforward language easily assimilable by the layman; the two chapters by Farrington are clear, accurate, and interesting.

BAPST, CONSTANT GERMAIN (1853-1921)

Member Parisian family of jewelers, Alfred, his father, was the last of the French Court jewelers; studied history, archeology; participated in a research-/exploration in the Caucasus. *Dict Biogr Fr*, 5, p 4-5.

369. -----1886 Les joyaux de la couronne. *Revue des Deux Mondes*, Paris,73, 1886, p 861-78. Not seen.

370. -----1887 Du rôle economique des joyaux dans la politique et la vie privée pendant la seconde partie du 16me siècle, Paris, 1887, 57 p. Not seen.

371. -----1889

Histoire | Des Joyaux | De La | Couronne De France | D'Après | Des Documents Inédits | Par | Germain Bapst | [rule] | Ouvrage Orné De Cinquante Gravures | [rule] | Paris | Librairie Hachette Et Cie | Boulevard Saint-Germain, 79 | [rule] | 1889 [title in red & black]

8°: [2 blank], [5], [1 blank], III, [1], 715, [1 blank], [1], [1 blank], [1], [1 blank]p; 51 text woodcuts(10 fullp with reverses

blank, but included in pag); 2 double-f pls, hinged. Var bindings but probably first issued in printed wrap. Ca 27.9 x 19.4 cm(11 x 7 5/8 in). JSL.

Cont: blank f; 1/2tp; other works of author; tp; dedic; pref; source of documentation; 25 chs in 9 bks; append; index; bibliographical index; index of cuts; tab cont; errata; publ data; blank p.

Very thorough, highly regarded historical study of the French crown jewels from the reign of Francis I, ca 1530, to to the time of publication. Discusses provenances of the jewels, financial roles played by them, histories of the Sancy and Mirror of Portugal diamonds, large rubies in the collection, and major events connected with the treasure from earliest periods, through the French Revolution, and the diamonds remaining in the treasure after The Terror and at present. Much of the reading is dry due to the factual style adopted by Bapst, particularly in passages where statements are supported profusely by reproductions of pertinent documents, decrees, official inventories, and the like. However, much of the text concerns famous gems and jewels and their disposition and is therefore of great importance in establishing authentic points in time and place for same. The role of Tavernier in supplying a number of famous gems to the crown is briefly acknowledged and a list of these purchases appears on p 403-5, with a plate taken from Tavernier's *Voyages*, inserted between p 402-3 showing the large Indian diamonds. Material on the Regent or Pitt diamond appears on p 427-31, a list of engraved gems on p 608-13. There are many other lists, inventories, and table,commonly in great detail. The text wood engravings depict particularly important jewels and gems. Indispensible in any research connected with the French crown jewels and gems.

372. BARBAROUX DE MÉGY

Notice | Sur La | Fabrication Et La Pêche Du Corail. | Moyens | De Reviver L'Une L'Autre En France, | Par | Barbaroux De Mégy, | Fabricant A Marseille. | [publ logo] | Marseille, | Marius Olive, Imprimeur, Rue Paradis, 47. | [dash] | 1839

Entire title on cover enclosed in ornate ruled frame.

Centersewn: 16 p, blue wrap, cover title. 20.4 x 13.2 cm(8 x 5 1/8 in). Cut. USGS Kunz Coll, GS 34-284.

Discusses the depressed coral-fabrication industry of Marseilles, the means for revival, state of Mediterranean coral fishing with production statistics for 1832-37, and how coral fishing should be encouraged, especially in Algerian waters.

373. BARBEAU, MARIUS

Haida Myths | Illustrated in | Argillite Carvings | By | Marius Barbeau | Bulletin No. 127 | Anthropological Series No. 32 | [coat of arms of Canada] | Canada | Issued Under The Authority Of The | Minister Of Resources And Development | Department Of Resources And Development | National Parks Branch | National Museum Of Canada | Price, $3.50 [Ottawa: Edmond Cloutier... Queen's Printer... 1953]

16°: ix, [1 blank], 417, [1 blank] p; 328 fig(mainly photos of argillite and wood carvings). V heavy pale gray wrap, black & red lett, with Haida bird design in b&w on cover & spine. Stiff endp with blue, white, red & black lett, etc. & map of Alaska/Asia, map of Queen Charlotte Islands, and several Haida-type drawings. 24.7 x 16.6 cm(9 3/4 x 6 1/2 in). Cut. JSL.

Cont: tp; publ data; tab cont; pref(2); ackn; introd; text tp; 12 chs; append(3 pts); biblio(p 415-7, 58 entries); blank p.

Meticulously traces origins of Haida myths which serve as inspirations or provide motifs for the unique Haida argillite and wood carvings. Many splendid examples, esp those made of argillite from the Queen Charlotte Islands, are depicted. The introduction notes that the art is relatively modern and traceable to New England whaler work in scrimshaw which apparently inspired Haida seamen employed aboard whaling vessels who later introduced carving into their villages. The earliest use of argillite appears to be in the early 1820's.

374. -----1957

Haida Carvers | in | Argillite | By | Marius Barbeau | Bulletin No. 139 | Anthropological Series No. 38 | Issued under the authority of | The Honourable Alvin Hamilton, | Minister of Northern Affairs and National Resources | 1957 | Department Of Northern Affairs And | National Resources | National Museum Of Canada | Price, $3.00 [Ottawa: Edmond Cloutier... Queen's Printer.]

16°: viii, 214 p; front b&w drawing of Haida carving on flyleaf, 229 fig, mainly photos. Gray cloth, black & red lett, with Haida bird head on cover; black & red lett spine. Map of Queen Charlotte I and of the Arctic in black, white, pale gray & blue on endp. 24.6 x 16.5 cm(9 3/4 x 6 1/2 in). Cut. JSL.

Cont: front; tp; publ data; pref(2); ackn; tab cont; 18 chs; append.

Early sections present data on argillite as a carving material, the quarry from which won, and history of its use. Text in two distinct parts: (1) on types of objects and brief biographical notes on their carvers, (2) full biographies of noted carvers represented herein, including several still living. More than 40 carvers are included. Numerous photos of carvings of all types from many private and public collections that are representative of their work. Most of the carvings are described in detail, indeed sometimes minutely so.

375. BARBER, JANET

Pebbles as a Hobby | Janet Barber | [publ logo] | Pelham Books [London, 1972]

8°: 160 p; 10 col photos on 2 glossy f bound-in; 49 line drawings; 9 photos called "plates." Olive-green paper over bds; gold lett spine. Col dj. 21.5 x 17 cm(8 1/2 x 6 5/8 in). Cut. £2.75 net. JSL.

For rank beginners: how to collect & identify pebbles of many rock types, esp along British Isles coasts, how to form a collection of same, how to tumble polish them, and how to make decorative objects from same.

BARBER, RAYMOND JENNESS(1885-1955)

Career mining eng; grad MIT 1906; curator mineralogy & petrology Los Angeles County Mus.

376. -----1954 The nature of jade. *G & G*, 8, 2, 1954, p 38-46; 3, p 67-77, 13 photos; also issued sep. Nomenclature, compositions, structures, identification, sources of jade materials. Useful survey article.

BARBET DE JOUY, JOSEPH HENRI(1812-1896)

Fr art historian, civil servant; after studies in art, esp architecture, entered service Louvre Museum in 1850 with specialty in conservation of objects of the

Middle Ages and Renaissance; Conservateur 1863; Officer, Legion of Honor 1872; Director Fr National Museums 1879. *Dict Biogr Fr*, 5, 282.

377. -----1865-1866 Musée impériale du Louvre. Les gemmes et joyaux de la couronne. Publiés et expliqués par Henry Barbet de Jouy, conservateur du musée des souverains et des objets d'art du moyen âge et de la renaissance, dessinés et gravés a l'eau-forte par Jules Jacquemart. Paris, Chalcographie des Musées, 1865-66, 2 parts, in fol., avec 60 pl. 200 fr; avant la lettre: 400 fr. First edit., not seen; from Vinet 2082.

378. -----1886, 2nd edit

Les | Gemmes Et Joyaux | De La Couronne | Au | Musée Du Louvre | Expliqués | Par | M. Barbet De Jouy | Membre De L'Institut | Dessinés Et Gravés A L'Eau-Forte D'Aprés Les Originaux | Par Jules Jacquemart | Chevalier De La Legion D'Honneur, Membre De L'Academie Impériale De Vienne, Chevalier De L'Ordre De François-Joseph | Introduction | Par | M. Alfred Darcel | Directeur Du Musée De Cluny | [publ monogram] | Paris | Léon Techener | 52, Rue De L'Arbre-Sec, Au Premier | Près La Colonnade Du Louvre | MDCCCLXXXVI [1886; title in red & black]

In 31 parts("livraisons"), by subscription, 1882-6; first 30 parts each contain 2 pls + 2 f explanation; last part tps, prelims. Pale gray- green print wraps, title on front, subscription details, etc, back covers. Neither single issues nor pls could be purchased separately. On "magnifique papier jésus verge de la plus belle qualité " made specially by Marais and Sainte-Marie, watermark "Marais" and "L. Techener," but also spec printing of 4 copies only on vellum, price 5000 frs, and 20 copies on "double du japon," price 900 frs.

Single leaves: 60 engrav pls, [60]f text + 1 livraison = [2]f, half-titles, [1] f title, [2]f introd by Darcel,[2]f tables of pls, altogether [7]f. Note: one of half-titles is for the second part of the work, pls 31-60. Sheet size 54 x 37 cm(21 3/8 x 14 5/8 in). Inside edges cut only. LC F-2314. JSL.

Cont: presumably, when bound, would be: 1/2tp; tp; introd; tab of pls for first part; pls & text 1-30; 1/2tp & pls table for seond part; pls & text 31-60. Rarely found complete.

Depicts & briefly describes gemstone or gemstone-decorated objects in the Louvre collections, among which are primarily various containers made from rock crystal, sardonyx, agate, jasper, porphyry, lapis lazuli, and jade, several pieces of jewelry, a reliquary, and the swords of Charlemagne and Childéric I. All plates by Jules Ferdinand Jacquemart(1837-1880), a celebrated engraver of France. The style is free, indeed one may say sketchy, but the overall effects are eminently satisfactory, especially in giving convincing transparency to rock crystal objects. Objects in actual size.

379. -----1867

Galerie D'Apollon | [rule] | Notice | Des Gemmes Et Joyaux | Par | H. Barbet De Jouy | Conservateur du Musée des Souverains et des Objets d'art | du Moyen âge et de la Renaissance | [rule] | Série E. | [rule] | Paris | Charles de Mourgues Freres | Imprimerie des Musées Impériaux | Rue J.-J. Rousseau, 8 | [rule] | 1867

8°: [blank f, supplied, bound-in] + [2]f + XX, 117, [3 blank]p. Pale green wrap; cover title. First & last blank f pasted to wrap. 23.7 x 15.2 cm(9 3/8 x 6 in). Uncut. USGS Kunz Coll; LC 5-41444.

Cont: blank f; 1/2tp; presentation ltr; ltrs assigned to classes of objects; introd; catalog; index to cat divisions; chronol table; 3 blank p.

Catalogs & briefly describes the splendid jewels and gemstone- and ornamental-stone decorated objects in the Galerie Apollon, Louvre Museum, Paris. Entries by number with identification of materials, mountings if any, date, dimensions, descriptions. Handsome catalog; high quality paper.

380. BARBIER, P V

Étude | Sur | Les Marbres | Et Les | Pierres D'Ornement | Du Royaume Italien | Par P.-V. Barbier | [orn rule] | Aix-Les-Bains | Typographie Et Lithographie A. Gérente | rues de Genève et de la Dent-du-Chat. | [rule] | 1888.

8°: [3]f (first f blank) + 82 p + [2]f (last f blank). Pale grayish, print wrap, cover title in frame; other author works back cover. 20 x 13 cm(7 7/8 x 5 1/3 in). Cut. Pale green text paper. The blank ff are bound in. JSL.

Facing title: "Il été tiré à part 50 exemplaires numérotes à la presse de l à 50. N° 3."

Cont: blank f; 1/2tp; limited edit note; tp; 6 chs; publ data; blank p; blank f.

General remarks on marble and ornamental stones of Italy, the stone industry, and brief descriptions of the stone found in various provinces, quarries for same, industries, and commerce.

381. BARBOSA, OCTAVIO. Contribuição a origem do diamante em Diamantina, Estado de Minas Gerais. *Departamento Nacional da Produção Mineral, Divisão de Geologia e Mineralogia Boletim 136*, Rio De Janeiro, 1951. Print wrap, 37 p, 15 photos on 8 glossy tip-in f, 2 sketch maps, 2 tables (one fold). Brazilian diamond occurrences in Minas Gerais compared to those elsewhere in the world and the conclusion drawn that they were originally formed in deep-seated basaltic rocks.

BARBOT, CHARLES (d 1862) French jeweler about whom I have found nothing.

382. -----1858

Traité Complet | Des | Pierres Précieuses | Contenant | Leur Étude Chimique Et Minéralogique | les moyens de les reconnaitre sûrement | leur valeur approximative et raisonnée, leur emploi | la description des plus extraordinaires | et des chefs-d'oeuvre anciens et modernes | auxquels elles on concouru | Par | Charles Barbot | Ancien Joaillier | Inventeur du procédé de décoloration du Diamant brut | Collaborateur au Dictionnaire des Connaissances humaines | Membre honoraire et Vice-Président de la Société des Sciences Industrielles, | Arts et Belles-Lettres de Paris, etc. | Ouvrage Indispensible | Aux Lapidaires, Joailliers, Bijoutiers, Orfévres-Artistes, | Négociants En Pierreries, Minéralogistes, | Antiquaires, Amateurs, Gens Du Monde, Etc. | Publié En 25 Livraisons | Sur papier jésus satiné, avec un Atlas de planches | Comprenant 178 Figures représentant les Diamants les plus célèbres de | L'Inde, du Brésil et de l'Europe, bruts et taillés, et les dimensions | exactes des Brillants et Roses, en rapport avec leur poids, depuis un | Carat juqu'à cent Carats. | [orn] | Paris | Typographie Morris Et Compagnie | Rue Amelot, 64 | [rulel | 1858

The paper wrap follows the above more or less exactly but the publisher is given as "Paris | Librairie Scientifique-Industrielle Et Agricole | De | Lacroix Et Baudry | 15, quai Malaquais | rule | 1858 |..."

12°: 567, [1 blank]p; 3 fold litho pls bound-in at end of text, each unfold to ca 62 cm(25 in). Pale blue wrap, cover title. 17.1 x 11 cm (6 3/4 x 4 3/8 in). Cropped. JSL.

Cont: 1/2tp; print data; tp; tab cont & pls list; pref; text; table of SG; blank p; pls.

Essentially an encyclopedia of gemstones and technical terms connected with the jewelry trade presented in terse, informative language. There are 80 artticles devoted to as many terms, including gemstone varieties as well as species, all in alphabetical order. Each gemstone article provides all essential data on properties, deposits, methods of cutting, uses, and specific retail prices as then current. The folding plates are of great interest and attractively and realistically drawn. The first depicts curiously-shaped rough diamond specimens as well as crystals but it is obvious that Barbot knew little about crystallography because several impossible crystal forms are shown, eg, a pentagonal dodecahedron, and a 24-faced solid, classical geometrical solids not occurring in actual crystals. Also on this plate are sketches of lapidary apparatus and styles of brilliant and rose cuts. The second plate shows a large number of famous diamonds and the third plate gives several cutting styles of diamonds in addition to a graduated series of brilliants and rose cuts with corresponding carat weights. Noted in the title, Barbot's "invention" of a diamond decolorizing process is only briefly discussed in vague terms(p 229) with no details given except to say that heat and several strong chemicals are employed. Readers are encouraged to send in their stones for treatment and several pages are devoted to extolling the benefits to be expected.

383. -----1858, another issue. ...Guide pratique du joaillier; ou Traité complet des pierres précieuses, leur étude chimique et minéralogique, les moyens de les reconnaitre sûrement, leur valeur approximative et raisonné leur emploi, la description des plus extraordinaires et des chefs-d'oeuvre anciens et modernes auxquels elles ont concouru, par Charles Barbot... Paris, Hennuyer et fils, 1858.

Bibliotheque des professions industrielles et agricoles. Ser. C. no.26.

567 p, including tab fold pl. 18 cm. Not seen: from GS 34-483, G F Kunz Coll.

384. -----1858?, another issue. Traité complet des pierres précieuses contenant leur étude chimique et minéralogique... par Charles Barbot... Ouvrage accompagné de trois planches. Comprenant 178 figures qui représentant les diamants les plus célèbres de l'Inde, du Bresil et de l'Europe, bruts et taillés, et les dimensions exactes des brillants et roses, en rapport avec leur poids, depuis un carat jusqu'à cent carats. Paris, E. Lacroix [1858]

On cover; Guide du joaillier Les pierres precieuses.

Bibliotheque des professions industrielles et agricoles. Serie G. no.26.

563 p. 3 fold.pl. 19 cm. Not seen; from GS 34-399, G F Kunz Coll.

385. -----1858(?), new edit, rev by Charles Baye

Guide Pratique Du | Joaillier | Ou Traité Complet Des | Pierres Précieuses | Leur Étude Chimique Et Minéralogique | Par | M. Charles Barbot | Nouvelle Édition Revue, Corrigée Et Annotée | Par | M. Charles Baye | [rule] | 8 planches renferment 178 figures | [in center, publ monogram; to left:] | Arts | et Metiers | [rule] | [to right:] Serie G | N° 15 | [rule] | Paris | J. Hetzel Et Cie Editeurs | 18, Rue Jacob, 18 | [rule] | Tous droits de traduction et de reproduction resérvés [nd, 1858?]

At head of title: Bibliotheque Des Professions | Industrielles, Commerciales Et Agricoles | [rule]

12° [3], [1 blank], [1 blank]p + 48p catalog of publ bks; 3 fold litho pls, bound-in. Pale pink wrap, cover title; rules & lett spine; advert back cover. 18.5 x 12.2 cm(7 1/4 x 4 7/8 in). Uncut Price 4 fr paper, 4 fr 50 bound. USGS 34-399(gives date of 1858).

Cont: ser tp; print data; tp; blank p; pref; text; tab cont; SG table; blank p; pls; publ catalog.

Entirely reset and rearranged in places but content substantially remains the same; new article added on imitation gems; pls unchanged but on poorer quality paper with figs in gray ink instead of black. The call for "8" plates is misleading, there remain only 3 plates but the separate groups of figs total eight.

386. Not used

387. BARBOUR, TOM R How to cut replicas of the world's most famous diamonds. *Lap J*, 14, 1, 1960, p 38, 40, ill,Cullinan I; 2, p 202-4, Great Mogul; 3, p 260-1, Jubilee; 4, p 327-9, Koh-I-Noor; 5, p 410-1, Koh-I-Noor, new style; 6, 1961, p 516-7, Regent; vol 15, no 1, 1961, p 98-9, Florentine; 3, p 344-6, Hope; 4, p 452-4, Sancy; 5, p 566-7, Cullinan II; 6, 1962, p 650, Nassak; vol 16, no 1, 1962, p 139-41, Dresden Green; 2, p 260-1, Cullinan IV; 3, p 359-60, Star of the South; 4, p 442-3, Orloff; 5, p 492-3, Empress Eugenie; 6, p 582-3, English Dresden; 7, p 678-9, Cullinan III; 8, p 780-1, Stewart; 9, p 880-1, Pasha of Egypt; 10, 1963, p 946-7, Jonker; 11, p 1032-3, Piggott; 12, p 1130-1, Tiffany; vol 17, no 1, 1963, p 14-15, Victoria; 2, p 302-3, Cullinan V; 3, p 378-9, Polar Star; 4, p 469-71, Shah; 5, p 539-41, Cullinan IV; 6, p 651-3, Cullinan VII; 7, p 716-7, Cullinan VIII & IX; 8, p 824-5, Dudley.

387A. BARBOUR, TOM R & BARBOUR, JOYCE
Country of opals - Honduras. *Lap J*, 18, 8, 1964, p 948-55, map, 4 photos; 9, p 1066-72, map, photo; 10, p 1158-63, 5 photos; 11, p 1236-42, 5 photos; 12, p 1320-26, 4 photos; vol 19, no 1, p 46-60, *passim*, 6 photos. Travels in Honduras, the countryside, people, markets, and the opal deposits and mines.

BARDET, MARCEL G

Fr geologist/mineralogist, specializing in diamond deposits, types, origins, etc.

388. -----1964 Controlé géotectonique de la répartition des venue diamantifères dans le monde. Rôle structural des plates-formes et des fractures très profondes. *Chronique des Mines et de la Richerche Minière*, Paris, no 328, 329, 1964, p 67-89, 8 figs(maps), 1 fold map insert; biblio p 88-9, 52 entries. Geotectonic controls over emplacement of diamondiferous veins or pipes as related to plates and deep fractures of upper mantle. Resumes in Engl & Russ.

389. -----1973 Geologie Du Diamant. Vol l, Generalités, 1973, $50. Vol 2, Gisements africains, 1976, $50. Vol 3,

Gisements d'Amerique du Sud et d'URSS, 1977, $36. Bureau de Recherches Géologiques et Minières, Avenue de Concyr, Orleans-la-Source, Loiret,B.P. 6009, 45018 Orleans, France.

Not seen: from rev by H O Meyer, *Amer Min*, 64, 7 & 8, 1979, p 932-3. See also rev *J Gemm*, 20, 2, 1986, p 130.

Vol l: physical properties, synthesis, kimberlite, genesis of diamond, diamond exploration, with insert giving Bardet's views of major ideas related to diamonds, kimberlites, and mantle xenoliths discussed at the First Kimberlite Conference in Cape Town, 1973. Volumes 2 & 3 cover the whole world in terms of occurrences, and where pertinent, kimberlites. Meyer: "these volumes are essential to anyone interested in diamonds and kimberlite, particularly in occurrences and exploration. Unless an English text is forthcoming, this work... will remain for many years as the "Bible" for "diamantists.""

390. BARDIN & Cie, PARIS

La Perle [Title from cover; Paris: Bardin & Cie post 1903]

8°: [2 blank], 22, [31], [1 blank]p; 39 photos (includes 28 of persons). Pale green wrap, title & photo on cover; print data back cover. 24.5 x 15.8 cm(9 5/8 x 6 1/4 in). Cut. Glossy paper. USGS Kunz Coll, GS 34-824.

Cont: blank f; photo of fishermen; text to p 22; photos of persons with endorsing ltrs and facsimile signatures; publ address; blank p. Advertising brochure by a Parisian firm of perfumers who had just issued a new "pearl" face-powder and obtained endorsements from a number of famous actresses and one actor. Gives a brief history of the pearl, the pearling industry, esp in Mid-East waters, and other facts, with the latter part of the booklet taken up by the photographs and endorsements.

BARDWELL, D C, see LIND, S C

391. BARENTS, M Present-Exemplaar, Niet In Den Handel. De Diamantslijperij Maatschappij Te Amsterdam 1845 15 April 1920 Door M. Barents. 8° 106, [1], [1 blank] p; 22 text photos & diagrs. Green cloth, blind rules & gold lett on cover; gold lett spine; blind rules back cover. Tan & brown endp. 23 x 15.5 cm(9 1/8 x 6 1/8 in). Cut. Copy in Industrial Diamond Infor Bur, London. History of the firm of diamond cutters, as taken from old records and documents, and illustrated with old photographs.

BARIAND, PIERRE Curator of minerals in the Curie University(Sorbonne), Paris.

392. -----1979.

The wonderful world of | Precious Stones | in their natural state | Texts by Pierre Bariand | Keeper of the Collection of Minerals | Université P. et M. Curie (Sorbonne) | Photographs by Nelly Bariand | Abbey Library/ London [1979]

4°: [1-7], 8-106, [107-112]; first & last pp blank and pasted to insides of covers; hence p [2-3] are col photo "endpapers" as are p[110- 111]; p[7] is conjugate with the front pastedown; p 106 conjugate with the back pastedown. 118 col photos, not counting endp. White, cloth-type paper over bds; gilt spine title. Col dj. 25 x 19.8 cm(9 7/8 x 7 3/4 in). Cut. Déposito legal B. 29228-1979. JSL.

Cont: photo endp; 1/2tp with col photo; front photo; tp with col photo; print data with col photo; pref & photo credits; tab cont with col photo; text; photo endp.

Essentially a color plate book of rough mineral specimens, mostly of splendid quality, of minerals that have been used as gemstones although the specimens depicted may not be suitable for lapidary treatment while some obviously are not gem quality. A very general, non-technical commentary accompanies the pictures and provides a meager and not always error-free text

BARIAND, P, see WYART, J, et al

393. BARIAND, PIERRE & POULLEN, J F The pegmatites of Laghman, Nuristan, Afghanistan. Transl by Allen Bassett. *Min Rec*, 9, 5, 1978, p 301-8, 15 fig(3 maps). Important firsthand account of pegmatites yielding gem spodumene, beryl, and tourmaline.

394. BARIAND, PIERRE; POIROT, JEAN-PAUL & DUCHAMP, MICHEL

Larousse | des pierres précieuses | fines, ornementales, organiques | Pierre Bariand | conservateur de la collection des minéraux de la Faculté des sciences, | université Pierre et Marie Curie. | Jean-Paul Poirot | directeur du Service public du contrôle des diamants, | perles fines et pierres précieuses | de la Chambre de commerce et d'industrie de Paris. | Avec la collaboration de | Michel Duchamp | pour les sceaux, les cylindres, les intailles et les camées. | Photographies de | Nelly Bariand, | sauf mention spéciale. | Librairie Larousse | 17, Rue Du Montparnasse - 75298 Paris CEDEX 06 [1985]

8°: 261, [3]p; 39]. col ill; 8 b&w ill; 5 tabs. Bright blue unfinished cloth(silk?); gilt cover title with inlaid col pl cut-out of a blue sapphire necklace pasted on; gilt spine title; back cover gilt publ logo. 25.9 x 21 cm(10 1/8 x 8 1/4 in). Cut. ISBN 2-03-518204-2. JSL.

Cont: 1/2tp; tp; publ data; pref; ackn; text; appends-(glossary, biblio, p 256-8, ca 75 entries, museums worth visiting worldwide; ident table for gemstones).

Excellent, beautifully illustrated general work on gemstones, with the main body describing the species and varieties alphabetically, but with a preliminary text on curious lore, history, origin of gemstones, gemstone properties, with tests, inclusions, lapidary work, imitations and artificial gems, with chronology of appearance and nomenclature, and other useful facts. All of this preliminary material is richly illustrated, and insofar as depictions are concerned, the inclusion of many photographs of ancient to modern jewelry, especially those made in the Art Deco period, provides a most worthwhile feature in addition to the expected provision of many fine pictures of cut and rough gemstones. The bibliography, however, is incomplete, some very important treatises having been omitted and not enough said about any of the works that deserve a meritorious note. Rev: M O'Donoghue, *J Gemm*, 20, 1, 1986, p 57.

BARIC, LJUDEVIT, see SBORNIK NARODNIHO MUZEA

395. BARKLY, H The Diamond Fields Keepsake. Capetown: 1873. 38 pp, photos. 8 1/2 x 11 1/4 in. Not seen: from a

dealer's catalog "describes in words and pictures the rise and progress of the diamond fields of South Africa."

BARLOW, ALFRED ERNEST (1861-1914)

Canadian geologist; BA McGill U, 1883; MA 1889; DSc 1900; to Geol Survey Canada in 1907 but soon resigning to establish private geological consultancy in Montreal; publ over 60 papers 1890 to 1915. *Canadian Biogr, 3rd edit, 1963.*

396. -----1915 Corundum, its occurrence, distribution, exploitation, and uses. *Canada Department of Mines, Geolological Survey Memoir* 57, Ottawa, 1915; Publ no 1022.

8°: vii, 377, [1 blank]p + vii p; a blank at each end serves as a flyleaf. Col front on glossy f with tissue, tip-in + 27 tip-in photo or gravure pls, all with tissues bearing lett; 1 text map; 1 fold map tip-in. Stiff pale gray printed wrap, cover title. Inner hinges cloth-tape reinforced. 24.8 x 16.3 cm(9 3/4 x 6 3/8 in). Cut. CS 15-432. JSL.

While aimed at the exploitation of commercial abrasive-quality corundum in Canadian deposits, this work also contains a considerable amount of information on the gem varieties and their deposits, most such references being found in Ch 12 which deals with the distribution of corundum in Canada, United States, and elsewhere in the world. Also mentioned are sodalite and cancrinite rocks (sometimes used for gem or ornamental applications) in connection with petrography of corundum-bearing rocks in Canada.

397. -----1917 French edit Le corindon: gisement, distribution, exploitation et usages. Ottawa, 1917. *Canada Ministère des Mines, Commission géologique, Mémoire 57*, série no 50, 307 pp.

BARNATO, BARNEY, see RAYMOND, H, also LEWINSOHN, R

398. BARNES, DAVID F Infrared luminescence of minerals. *USGS Bull 1052-C*, 1958, III p + p 71-157, 2 pls, 4 tabs. Print wrap. Methods, equipment used to excite IR luminescence; extensive tables showing specimens & sources, including gemstones, production of IR and visible luminescence, and their characteristics.

399. BARNES, JONATHAN & HOLROYD, W F La Blue-John-mine à Castleton(Angleterre). *Mémoires, Societé de Speleologie*, Paris, 4, 23, 1900, p 1-19. On the blue john massive fluorite of the Castleton,Derbyshire area of England, ie, caves of Treak Cliff. Abstract/transl from *Trans Manchester Geol Soc*, 24, pt 10, l896,p 215- 245, 10 pls; not seen.

BARNES, J H, see GEYER, A R, et al

400. BARNES, LEWIS CHARLES(1946-), et al

Department of Mines and Energy | Geological Survey of South Australia | Some Semiprecious and | Ornamental Stones | of South Australia | Contributions from | L.C.Barnes, C.H.H. Conor, P.P. Crettenden, S.J. Daly, | R.J. Harris, P.D. Johnson, W.S. McCallum, D. Nicol, | G.M. Pitt, D.C. Scott, R.L. Wildy and D.A. Yound | [below, left, the Dpt Mines logo]| issued under the authority of | The Hon. E.R. Goldworthy, M.P. | D.J. Woolman, Government Printer, South Australia 1980 [Adelaide?]

8°: 159, [1 blank] p; several dozen col photos, b&w photos, small maps(part col) and a large part-col fold map in inside back cover pocket ("Fig 2"); tables. Stiff col wrap, col photo jade both covers. 21.1 x 14.8 cm(8 1/4 x 5 7/8 in). Cut. JSL.

Cont: tp; sale note & caption; tab cont; introd; text; blank p.

Excludes "precious" stones, eg, opal, but includes nephrite, amazonite, talc, smoky quartz, rock crystal, amethyst, jaspilite, agate, chrysoprase, turquoise, banded calcite, chiastolite, and, inexplicably (inasmuch as nothing is said about its suitability for personal ornament, or otherwise), the rare mineral scholzite. The important nephrite deposits of the Cowell district receive due attention and are delineated on the large folding geological map. Each mineral is provided its deposit geology/mineralogy, a location map, origin, description of the materials, and list of references. It is all handsomely got up and ornamented with excellent color photographs of the sites and the materials in rough & cut forms. Rev G Brown, *Austral Gemm*, 14, 6, 1981, p 144-5; *J Gemm*, 18, 1, 1982, p 83.

401. BARNES, LEWIS CHARLES & TOWNSEND, IAN JACK(1945-)

Opal | South Australia's Gemstone | L.C. Barnes and I.J. Townsend | Geological Survey of South Australia | Handbook No. 5 | D.J. Woolman, Government Printer, South Australia, 1982

8°: 157, [3 blank] p; 21 fig(part col); 112 col photos ("Plates"). Heavy col wraps(col photo of prec opal in matrix); cover title. 21 x 14.7 cm(8 1/4 x 5 7/8 in). Cut. Glossy paper. ISBN 0 7243 5792 0; ISSN 0726-1519. JSL.

Cont: tp; publ data; tab cont; introd & gloss; text; biblio(p 153- 7, 113 entries); previous series title list; [3 blank] p.

Outstanding, clearly written, informative monograph, with a glossary of terms connected with opal and the opal industry(p 8-17), a brief explanation of the nature & origin of opal, historical remarks, field geology, methods of mining, the several major fields in the state, minor diggings, the Mintabie field, and remarks on the valuation of opal, the industry, legal aspects of prospecting, claiming, notice-placing, labor, etc. The colored photographs show scenes in the fields, mining & mining machinery, rough and cut stones, etc, while many of the text figures are geological sketches and maps, some partly tinted.

BARNES, R C, see INTERNATIONAL TURQUOISE ANNUAL

BARNES, VIRGIL EVERETT(1903-)

Geologist; BS & MS in geol Washington State U; PhD geol U Wisconsin; to USGS, but in 1935 to faculty U Texas, Austin, later prof geol & director tektite research; Mildred A Barnes, spouse, attended U Texas, Austin, studied languages, Engl lit, journalism and assisted husband in tektite research.

402. -----1940

North American Tektites | Catalogue Of Texas Meteorites |... [5 lines]... | By | Virgil E. Barnes | Separate from the University of Texas Publication 3945, | pp.477-656, pls.22-31 | Issued June, 1940 [Wrap title]

Edgestapled; pale gray print wrap, 22 x 14.8 cm(8 5/8 x 5 7/8 in). Cut. Photo pls on very pale yellow paper of slightly heavier guage. Also includes fig 79-99. JSL. GS 41-142.

Text begins "Contributions to Geology, 1939, Part 2, North American Tektites." This part includes p 477-582 and pls 22-6 depicting external shapes of texas bediasites as well as thin sections and inclusions. The remainder of the text treats meteorites. The tektite section provides a history of tektites & tektite research, especially of moldavites, and briefer remarks on australites and other types, followed bv an extended discussion of the native bediasites, including localities, sizes, appearances, properties, etc. This is the first definitive description of bediasites.

403. BARNES, V E & BARNES, MILDRED A, Editors

Tektites | Edited by | Virgil E. and Mildred A. Barnes | The University of Texas at Austin | [publ monogram to left] Dowden, Hutchinson | & Ross, Inc. | Stroudsburg, Pennsylvania [1973]

At head of title "Benchmark Papers in Geology"

16°: xv, 445, [3 blank] p; many dozens of ill of all types. Dk blue cloth, gold lett & benchmark logo on cover; gold lett & publ monogr on spine. Dk blue glossy dj with resume, advert, author vitae. 25.3 x 17.5 cm(10 x 6 7/8 in), cut. Dull finish paper. $16.50. LC 72-95942; ISBN 0-87933-027-9. JSL.

Cont: other series vols; tp; publ data; ackn; series edit pref; pref; tab cont; cont by author; introd; 7 parts, the last a biblio to 1959, reprinting George Baker's biblio in *Memoirs, National Museum of Victoria*, Melbourne, vol 23, 1959, p 231-46, ca 480 entries; author citation index; subject index; 3 blank p.

First part, 12 papers: geology, petrology, mineralogy and including Clayton & Spencer's classic paper on the Libyan Desert silica glass(which see), Lacroix's article on tektites of Indochina, Barnes' paper on North American tektites, and another by King on Georgia tektites(which see). Other parts: physical & chemical properties, age determination, sculpture, microtektites, origin, and the Baker biblio. All papers preceded with commentaries by the editors. Mostly highly technical but also contains considerable of interest to the gemologist, especially on properties useful in distinguishing tektites in cut form.

404. BARNES, WILLIAM H Pearl identification by X-ray diffraction. *G & G*, 5, 8, 1946, p 359-62, 376; 9, 1947, p 387-91; 10, p 428-9, 440-4, 446; 11, p 471-4; 12, p 508-12; 24 fig, 20 ref.

405. BARNETT, FRANK

Opal | and | How To Work It | [b&w photo] | Frank Barnett [East Malvern, Victoria, Australia: Gemcraft Publications PTY. Ltd., 1981]

Centerstapled: iv, 60 p; 10 photos, 12 line drawings, chart. Heavy, glossy pale yellow wrap, photo & title on front, author vita & vignette back cover. 21.5 x 14 cm(8 1/2 x 5 1/2 in). Cut. ISBN 909223 12 2. JSL.

Cont: tp; photo on 2 pp with tab cont; fwd & publ data; 13 chs; conclusions; chart of grit sizes.

Informative, practical text based on the author's long commercial cutting experience. Treats mineralogy of opal, ancient & modern history, Australian fields, opal types, outstanding opals, mining, lapidary treatment, including special methods for cutting boulder and seam opal, making assembled stones, and valuation of cut stones. Most of this material has been published before but is usefully gathered together here. Rev J C Zeitner, *Lap J*, 36, 1982, p 626; M O'Donoghue, *J Gemm*, 19, 1, 1984, p 69.

406. BARR, MYER B & STORM, PAUL J Studies In Diamantology, A Text on the Mining, Sorting, Processing and Evaluation of Diamonds by Myer B. Barr And Paul J. Storm, Philadelphia, The Bryn-Mawr Press, 1953. Loose f, 3 lefthand holes for use in ring binder: [4] p, [2]p introd & tab cont, followed by 28 "lessons" each of 8 to 16 pages per lesson; 110 text fig, sketches, graphs, etc. 28 x 21.5 cm(11 x 8 1/2 in). Copy in Library, Gemmological Assoc Gt Brit.

Practical lessons on all aspects of the diamond trade from mining to ultimate sale as cut gems. Each lesson consists of a reading assignment followed by a question sheet to be answered by the student. This course appeared briefly under the aegis of the Diamond Council of America, founded by Barr in 1945.

407. BARR, ROBERT

Speak, | Precious Stones | by | Rev. Robert Barr, M.A. | Zondervan Publishing House | Grand Rapids 2 [long rule] Michigan [1953]

8°: 128 p, tip-in glossy photo pl of author(front). Dk blue moire cloth, col dj, resume. 18.5 x 12.3 cm(7 1/4 x 4 7/8 in). Cut. Te stained dk blue. $1.50. JSL.

The author uses a few trivial data on gemstones to sermonize at length on human virtues and the teachings of the Bible. Chapters on: sardius, topaz, carbuncle, emerald, sapphire, diamond, ligure(jacinth), agate, amethyst, beryl, onyx, jasper, chalcedony, ruby, pearl, sardonyx, chrysolite and chrysoprasus; errors in technical parts.

BARRAUD, PIERRE-CONSTANT Abbé, of Beauvais (1801-1874)

Fr priest, ord 1824; titular canon Beauvais 1846; studies concentrated on history & customs assoc with liturgical materials and Christian archeology. *Dict Biogr Fr*, 5, 562.

408. -----1864

Des Bagues | A Toutes Les Époques | Et En Particulier | De L'Anneau Évêques | Et Des Abbés; | Par | M. L'Abbé Barraud, | Chanoine Titulaire De La Cathédrale De Beauvais, Membre | De L'Institut Des Provinces. | [orn rule] | Extrait du Bulletin monumental publié à Caen par M. De Caumont. | [orn rule] | Paris, | Derache, Rue Montmartre, 48; | Caen, - Chez A. Hardel, Imprimeur-Libraire, | Rue Froide, 2. | [dash] | 1864.

8°: 228, [4 blank]p; ca 27 wood engravs. 20.7 x 12 cm(8 1/8 x 4 3/4 in). Cropped. LC 7-5887.

Cont: 1/2tp; tp; text; 2 blank f.

On rings of all periods but emphasizing the ceremonial and official rings of bishops and abbots, their origins, early uses, rings indicating office, authority or position, cachets and seals, marriage rings, Christian rings, engraved gems and subjects engraved thereon.

BARRERA, ANITA DE

Madame De Barrera b Spain, educ Cuba, resided Engl & Fr, in which countries she held distinguished positions in artistic & literary circles; she foresaw the evils of the imminent Civil War in the US and founded *The American Journal* in Paris as a platform for her views on the settlement of differences between North & South by peaceful means; she wrote *History of the Queen of Spain*. From a contemporary newspaper clipping, unfortunately not identified; I have not been able to find any other information.

409. -----1860.

Lithiaka | [rule] | Gems And Jewels | Their | History, Geography, Chemistry, | And Ana, | From The Earliest Ages

Down To The Present Time. | By Madame De Barrera, | Author Of "Memoirs Of Rachel." | "Le luxe est un des signes de la civilisation." - M. Thiers. | [publ logo] | London: | Richard Bentley, New Burlington Street. | 1860.

8°: xxxii, 382, [1], [1 blank] p. Binding, see comments below. 19.5 x 12.3 cm(7 5/8 x 4 7/8 in). Cut. JSL.

Cont: 1/2tp; tp; print data; pref; introd by Babinet; tab cont; 5 parts(30 chs); print data; blank p.

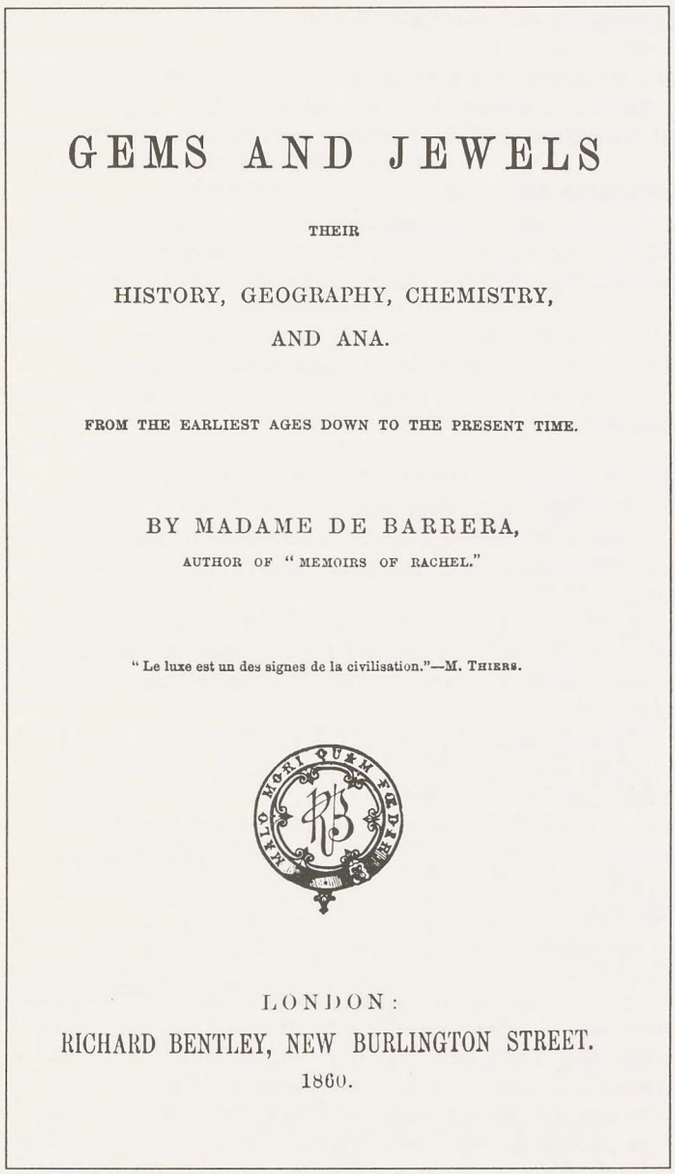
A marvelous compilation of curious and interesting facts on gemstones, gems, and jewels, stressing the human rather than technical aspects. Professor Jacques Babinet(1794-1872), whose own contribution to gemological literature is described elsewhere, was prevailed upon to write the introduction, a portion of which(on p xvi),fairly summarizes the content, that is to say, it "may be characterized as an Encyclopaedia of precious stones. It embraces all the connections existing between gems, science, and man. The author has viewed the subject under every aspect - as a historian, a political economist, a mineralogist, a physician, and a chemist." Accordingly, the first part discusses mankind's inherent fondness for gems and traces their use from ancient to modern times in many civilizations. Numerous famous jewels, jeweled objects, gems, and ornaments are described in appropriate chronological settings. In the second part, the sources of gemstones are described, including their origins, mythological as well as geological!, type deposits, and such other matters pertinent to geology and geography. The third part is technical, dealing with the scientific aspects and with historical remarks on the discovery of distinctive characters among gemstones, and with summaries of current knowledge of physical and chemical properties. However, and somewhat incongruently, this section also treats the nature and origin of pearls. Part four, of two chapters, is on curious lore, with a third reserved for engraved gems. The final part provides details on eminent persons associated with famous jewels and gems, celebrated diamonds, types of jewelry, great jewel robberies, and other topics in a refreshing smorgasbord of anecdotes, as lively as the day they were first reported.

A contemporary newspaper clipping found in a copy of this work, unfortunately not further identified as to time and place, stated that after the production of the two-volume biography of a celebrated European tragedienne entitled *Memoirs of Rachel*, Madame Barrera "subsequently... published under the somewhat odd title of "Lithiaka" a work full of research and interest on diamonds and precious stones." It was further noted that the book did not meet with much success "but it will remain the best work which has been written on the subject." Apparently both publisher and author concluded that the title had to be changed to make the book more attractive; this was done by the simple expedient of dropping "lithiaka" from the title and altering the latter to the form noted below and revising the front matter to suit. My copy, bound in blue sheepskin, and believed to be a private binding, bears the same date as the issue below, but this copy is so tightly bound that I cannot discover if the title leaf was canceled for the next issue. Obviously all copies with the title above must be quite rare.

410. -----1860, issue with new title

Gems And Jewels | ... [identical thereafter]... 1860.

Pagination same; purple, ornately embossed cloth with intertwined floral orns; elaborate gilt frame in center of front cover, but same is blind on back cover; similar gilt orn & lett spine.



GEMS AND JEWELS

THEIR

HISTORY, GEOGRAPHY, CHEMISTRY,

AND ANA.

FROM THE EARLIEST AGES DOWN TO THE PRESENT TIME.

BY MADAME DE BARRERA,

AUTHOR OF "MEMOIRS OF RACHEL."

"Le luxe est un des signes de la civilisation."—M. THIERS.

LONDON:

RICHARD BENTLEY, NEW BURLINGTON STREET.

1860.

410. Titlepage of Barrera's compilation of anecdote and lore

Pale tan-yellow endp. 19.8 x 12.5 cm(7 3/4 x 4 7/8 in). Part uncut. LC 8-30349. JSL.

Title reset; front matter reworded to omit "lithiaka;" else same.

411. -----1871, Spanish transl. Joyas y alhajas. O sea su historia en relacion con la politíca, la geografía, la mineralogia, la química, etc., desde los primitivos tiempos hasta el dia. Obra escrita en inglés por... y traducida directamente al castellano, por J.F. y V. In: *La America. Crónica hispano-americana*, Year XV, 1871, nos 7 to 21. Not seen; from Maffei & Figueroa, 1872, v 2, p 553-4, no 4478.

Part 1, general history of precious stones. Part 2, geographical origin of precious stones. Part 3, chemical composition of diamond and precious stones. Part 4, qualities, properties, and virtues of precious stones and historical jewels.

BARRETT, C S, see TRUEB, L F

412. BARRIE, J & KALIX, Z Gemstones. *Mineral Resources of Australia, Summary Report* No. 43, 1959, 48 p, map. Canberra: Government Printer. Not seen.

BARRIGA VILLALBA, ANTONIO MARÍA

Colombian geologist/mineralogist, civil servant; PhD Col Nuestra Señora del Rosario; prof phys & chem same coll for 27 yrs; prof organ chem & mineralogy Fac of Med Bogotá for 25 yrs; administrator, Casa de Moneda, Bogotá since 1938.

413. -----1953 Estructura de las esmeraldas de Muzo. *Revista, Academia Colombiana, Ciencias exactes Fisicas y Naturales*, 9, 33/34, 1953, p 37- 43, 10 fig, 9 tabs. JSL. Position of atoms as determined by X-ray work.

414. BARRIGA VILLALBA, A M & BARRIGA DEL DIESTRO, ANTONIO M

Antonio M. Barriga Villalba | Antonio M. Barriga del Diestro | La Esmeralda De Colombia | Descripcion y Propriedades [Bogotá 1973]

Reverse of tp: "Colegio Mayor De Nuestra Señora Del Rosario | Rector: Antonio Rocha | Departamento de Publicaciones | Serie Cientifica | Ponce De Leon Hermanos Ltda. - Bogota D.E. - 1973"

Cementb, oblong: [1] blank f + [2], 100, [1], [1 blank], [1], [1 blank] p; 66 fig(includes 17 col photos & line drawings in b&w, and/or tinted in green or blue, with several in multiple col); 2 X-ray diffraction traces on single fold pl bound-in. Heavy white paper wrap, title & col photo on cover; flaps fold in). 21.5 x 24 cm(8 1/2 x 9 1/2 in). Cut, Wrap slightly overlaps text. JSL.

Cont: blank f; tp; publ data; dedic; pref; history; text; X-ray pl; classif of cut emeralds; tab cont; blank p; print note; blank p.

Preface: "A New Enterprise of Rosario [college] ," the present work on Colombian emeralds is the first of a series of scientific publications from the college to provide an outlet for the achievements of Colombian scientists. Acknowledged are scientists who accomplished significant work but whose studies have not been published, with a special tribute paid to Villalba and his life & work. A short history, less than one page, describes the discovery of the Muzo mines and is followed by chapters on the morphology of its crystals, especially the curious sectored individuals known as "gemelos," the unit cell data, optical ellipsoid and refractive indices, other optical properties, color, geometry of faceted gems, color zoning, cutting, chemistry & constants, synthetic emeralds, and classification of commercial grades of cut emeralds. There are no references to other literature except indirectly by author, and there is no bibliography.

While much of interest will be found in this handsome and richly illustrated treatise, it contains material of questionable validity, eg, enantiomorphism in Muzo emeralds, a phenomenon not described by others in beryl, and advocating a curious parabolic cut for gems whose ability to reflect light from its pavilion facets flies in the face of experience. The authors also describe their own "synthetic emerald" which is made by fusion of Muzo emerald powder but fail to explain that such a glassy material cannot be beryl, and while citing some properties of Chatham synthetic emerald, also failing to describe the process whereby such crystals are grown. X-ray diffractometer traces are for Muzo emerald and a "reconstructed" emerald, the latter showing some peaks belonging to beryl and suggesting incomplete fusion of the starting material.

BARRIGA VILLALABA, A M, see MUÑOZ, G O

BARRY, E, see BECKE, L

415. BARRY, T HEDLEY

Natural Varnish | Resins | By | T. Hedley Barry | Consulting Chemist | [publ logo] | London | Ernest Benn Limited [1932]

8°: xii, 294, [10 advert]p; front sketch map; 7 other maps in text; 84 fig. Maroon cloth, gilt spine title. Pale tan dj, title & resume on front, other books of publ back. Back endp with advert. 24.5 x 15.7 cm (9 5/8 x 6 1/8 in). Cut. JSL.

Cont: 1/2tp; map; tp; publ data; dedic; pref; tab cont; ill list; 2 part text(23 chs); append; index of names; botanical index; subj index; advert.

"The present volume is based upon the section on Natural Resins which the author contributed to "Natural and Synthetic Resins," T. Hedley Barry, E.S. Morrell and Alan A. Drummond, which was published in 1926." The present work, highly respected and frequently cited, is of interest to the gemologist because of its detailed information on resins which are sometimes used as gem materials in carvings, small ornaments, or as falsely asserted "ambers," eg, copals. The first part of this interesting book treats the cultural and technological history of resins, botanical sources, properties, solubilities, chemistry, and other scientific data. The second part is descriptive and systematically examines copals from various countries, the kauri gum of New Zealand(Ch 11, p 64-76), damar, sandarac, mastic, etc, ending with a dissertation on shellac.

416. BARSANOV, GEORGEY PAVLOVICH Une variété de la serpentine 'nephritoide' et sa genèse [in Russian]. Not seen: *Trudy Lomonosovskogo Instituta Geokhimi, Kristallografii i Mineralogii*, Moskva/Leningrad, no 2, 1933, p 5-22.

417. BARSANOV, GEORGEY PAVLOVICH & YAKOVLEVA, MARIYA EFREMOVNA. Tsveta mineralov. *Trudy Mineralogicheskii Muzei im. A.E.Fersmana, Akademiya Nauk SSSR*, vypusk 14, Moskva 1963, p 32-78, 72 fig, 2 tabs. Colored minerals, embracing role of transition elements, results of examination of many species using transmitted light absorption techniques (many graphs, absorption curves vs wavelengths); includes gemstones, and also describes color centers of various types, allochromatism, interference colors and tarnishes; biblio p 73-8, 155 entries. JSL.

418. -----1966 Elbait i nekotorye redkie raznovidnosty turmalina. Ibid, vyp 17, 1966, p 3-25, 3 fig, 9 tabs. On rare element content & relationships to color in elbaite and other tourmalines; biblio p 24-5, 68 entries. JSL.

419. -----1978

Akademiya Nauk SSSR | Mineralogicheskiy Muzey Imeni A.E. Fersmana | G.P. Barsanov, M.E. Yakovleva | Mineralogiya | Yashm | SSSR | (Ural, Altay) | [logo] | [rule] | Izdatelstvo

"Nauka" | Moskva 1978

Cementb: 86, [2]p; 41 fig, 22 tab; 15 col photos on both sides of [4] glossy f bound-in between p 48-9. Purplish-red wrap, white lett, col photo front cover. 95 k; 1800 press run. JSL.

Cont: tp; resume; introd; text; summary; biblio p 85-7, 59 entries; tab cont & publ data.

Genesis & mineralogy of numerous types of fine-grained siliceous rocks which are treated together under the general term "jasper," and particularly those that have been used in making the celebrated Russian ornamental objects. There are specific references to the deposits in the Urals and Altay Mountains; some varieties are illustrated in color. Rev *J Gemm*, 16, 6, 1979, p 415.

420. BARTENBACH, JEAN

Rockhound | Trails | [rule] | Written And Illustrated | by Jean Bartenbach | Atheneum | New York. 1977

16° [1], [1 blank], [3], [1 blank], 122 p; front col pl tip-in; 28 text sketches. Brownish-yellow cloth, brown lett; brown endp; black dj with col photo. 21 x 13.7 cm(8 1/4 x 5 3/8 in). Cut. LC 76-25430; ISBN 0-689-30547-8. $7.50. JSL.

Elementary text for the young: rock types, rock minerals, collecting sites & what can be found, including gemstones as thunder eggs, petrified wood, beach pebbles, star garnets, apache tears, topaz, agates, etc. Short glossary & biblio.

421. BARTH, HERMANN (1866-)

Das Geschmeide | Schmuck= und Edelsteinkunde | von | Hermann Barth | Erster Band: | Die Geschichte des Schmucks | Mit einer doppelseitigen Tafel | in Farbendruck "Ringe aus allen Zeiten" und 16 Vollbildern | [orn] | Berlin | Verlagsbuchhandlung Alfred Schall | Königl. Preuss. und Herzogl. Bayer. Hofbuchhändler: Verein der Bücherfreunde [1903]

"Zweiter Band: | Das Material des Schmucks | Mit einer farbigen Tafel: "Die Edelsteine" und acht Vollbildern" | ... "

8°: Vol I: 352 p, doublep front col pl bound-in; 16 glossy tip-in pls of drawings. Pale gray charcoal-type paper over bds; dull maroon cloth spine and extending almost halfway across bds with cover title & monogram, vertical rule in gold; gold spine title. Maroon endp. 18.3 x 12.3 cm(7 1/4 x 4 7/8 in). Cut. Green marker ribbon. LC 5-11630. JSL.

Cont: pl; tp; publ data; dedic; poem; fwd; ill list; tab cont; text.

Vol 2: 371, [1]p; col front pl & 8 glossy pls tip-ins.

Cont: 1/2tp; pl; tp; publ data; tab cont; ill list; text; advert.

History of jewelry in all periods and the materials used in manufacture of same. Periods: Ancient Egypt, Euphrates valley civilizations, Phoenicia, Troy and Asia Minor, Mediterranean civilizations in the Classical period, Middle Ages, Renaissance, modern times, including Art Nouveau. The second volume is principally of interest to the gemologist and provides an extended discussion of precious metals, from ores to finished alloys, p 27-110, while the remaining pages are devoted to gemstones, p 111-371, taking these up by groups as quartzes, feldspars, etc, and in a "precious group", describing corundums, chrysoberyl, spinels, topaz, emerald, etc, with diamond given a major treatment, p 208-72. At this point, there is inserted a discussion of rare and unusual gemstones, followed by material on pearl, coral and amber. Most of the gemstone essays are really appreciations containing very little technical matter. On the whole, the greatest value of the work lies in its historical treatment in the first volume and the extended discussion of the precious metals in the second volume.

BARTHOLIN, KASPAR(or CASPAR)BERTHELSEN (1585-1629); also BARTHOLINUS

B Malmö, Sweden; att U Copenhagen, also Rostock and Wittenberg; prof med U Copenhagen 1613; rector 1618; later prof divinity and canon Röskilde, Denmark; wrote books, tracts on medical subjects, on pygmies, unicorns, etc. Sired Thomas and Erasmus(1625-1698), both subsequently achieving fame, esp Erasmus who discovered double refraction in Iceland spar. D Sorö, Netherlands. DSB 1, p 479-83.

422.-----1628

Caspari | Bartholini | Opuscu- | La Qvatvor | Singvlaria: | I. De Unicornu | $eisq_3$ affinibus & succedaneis. | II. De Lapide Ne- | phritico, & Amuletis praecipuis. | III. De Pygmaeis. | IV. Consilium De | Studio Medico inchoando, con- | tinuando & absolvendo. | Cum Gratia & Privilegio. | [rule] | Hafniae, | Excudebat Georgius Hantzschius | Anno Epoche Christianae, 1628 [Copenhagen]

8°: [8], 48, [1], 29, [2 blank], 29(recte, 30), [1], 8, [l]f; A-G^8, A^8, Bb-Cc^8, Aaa-Eee^8 (Ddd 6 misnumb 29 instead of 30). 15.5 x 9 cm (6 x 3 1/2 in), Cropped. JSL. Agassiz 1, 202; Böhmer, II, 1, 481(1630 edit).

Cont: tp; indexes to the 4 works; authors consulted & cited; unicorn tp & dedic + text; nephrite tp & dedic + text + [2 blank]f; pygmies tp & dedic + text; medical tp & dedic + text; errata f for all.

Separate titlepages enabled the works to be sold separately, and at times they are so described in catalogs; there is no date on the unicorn and nephrite titles, but the date 1628, with place & publ, appears on the remaining titles. Titles given below.

[i]: Casp. Bartholini | De Vni= | Cornu | $Eiusq_3$ affinibus & succedaneis | Opusculum. | [woodcut orn] | Reverendo...(catchword)

[ii]: Casp. Bartholini | De | Lapide Ne= | Phretico | Opusculum. | [orn] | Cum praeciouis ad $plerosq_3$ morbos | Amuletis. | [woodcut orn] | (no catchword)

[iii]: Caspari | Bartholini | De | Pygmaeis | Opusculum. | [woodcut orn] | Hafniae, | Excudebat Georgius Hantzsch, | Anno 1628.

[iv]: Casp. Bartho- | Lini | De | Stvdio | Medico | Inchoando | Continuando & | Absolvendo | Consilivm | Breve atq_3 extempraneum, | [orn] | Hafniae | Excudebat Georgius Hantzsch, | Anno 1628.

Gatterer (II, 50) records the nephrite work with date of 1627 but this apparently is in error; Fischer, *Nephrit u Jadeit*, 1880, p 105, gives the correct date of the first edition as 1628 and notes it is part of the compilation given above. He also mentions an 8° edition of 1678, Amstelodami (Amsterdam) but Gatterer gives this as 12°. Fischer's commentary confines itself to nomenclature and physical properties. National Union Catalogue locates only 3 copies in North America. Pogg I.

The progenitor of the famous family of Danish physicians and scientists, Caspar Bartholin, also known as The Elder, established a reputation for a keen, inquiring, yet sceptical mind, as displayed in his thorough examination of the nephrite stone and its supposed medicinal virtues. The first chapter discusses nomenclature and attempts to reconcile the numerous names used for green stones which may or may not be true jade as

given by Galen, Clutius, Pliny, Caesalpinus, Monardes, Boetius De Boodt, Gesner, and others. This is followed by chapters citing more authorities as to sources, transparency, durability, other stones confused with nephrite, and materials deceptively offered as nephrite. Another chapter treats qualities and medicinal or occult powers, followed by a chapter on the use of nephrite in the expulsion of renal calculi. Other chapters recount sources of stories concerning the efficacy of nephrite and the specific cures which are attributed to its use, and with accounts of ailments supposedly ameliorated or cured by application of other mineral substances. The last chapter draws conclusions, the chief of which states that further proof is required of the usefulness of nephrite in medicine.

In regard to the other works mentioned above, see Thorndike, 8, p 6-7 for comments, and Odell Shepard, *The Lore of the Unicorn*, 1930, esp p 174-6 on the unicorn, who notes that Bartholin's "little book about the unicorn and related topics... is remarkably clear, sensible, and well-arranged... [and] as "scientific" as almost any one living at the time could have made it." Furthermore, "it covers every important aspect of unicorn lore, including several never before discussed," Shepard, p 176, provides a photo plate reproducing the engraved title for the unicorn work, but of a later date. See Agassiz 1, 203, for other works on unicorns.

BARTHOLOMAEUS ANGLICUS, *recte* GLANVILLE, BARTHOLOMEW (fl 1230-1250)

Glanville was b Engl but studied in Paris,there became a famous prof of theology; later years in Germany. He achieved greatest fame for his great encyclopedia, described below.

423. -----1470 ca

Liber de proprietatibus rerum. Basle, ca 1470.

Before 1500 this work passed through 14 or more editions. Glanville compiled information on 19 subjects or areas of knowledge, one of which is on gemstones. It was one of the most widely-read books of its time, and as DNB states, "it was the encyclopaedia of the Middle Ages." Kunz, *Shakespeare and Precious Stones*, p 36, notes that Shakespeare "seems to have made some use" of the work because "he had before him most of the then available material [on gem lore]." The earliest English rendition is that of John of Trevisa in 1396, later published by Wynken de Worde in 1495. Another in English, is by Stephan Batman or Bateman(d 1587), published in 1582. Trevisa's edition was republished in 2 vols, xiv, 1397 p, by the Clarendon Press, Oxford in 1975(not seen). For extended comments on Glanville, his works, and their influence, see L Thorndike, *History of Magic*, 2, p 401-35, which, however, has very little to say on Book 16, stones. For purposes of describing gemological content, the following facsimile of the Frankfurt Latin edition of 1601 (see below) has been used. For more on this work, see Bernhard D. Harper, *The Medieval lapidary of Bartholomaeus Anglicus*, PhD Thesis, U North Carolina, 1971(not seen).

424. -----1601, Frankfurt facsimile of 1601 edit

Bartholo- | Maei Anglici | De Genvinis Rervm | Coelestivm, Terre- | Strivm Et Inferarvm | Proprietatibus, | Libri XVIII. | ... | Procurante | D. Georgio Bartholdo... Francofvrti, | Apud Wolfgangum Richterum, im- | pensis Nicolai Steinii, Not. & Bibliopolae. | Anno M. DCI. [1601]

Above facsimile; below the edition tp:

Bartholomaeus Angelicus | De rerum Proprietatibus | Frankfurt 1601 | Minerva G.M.B.H. | [rule] | Unveränderter Nachdruck - Frankfurt a.M 1964

8°: [2]f blank + [1], [3 blank1p + [16], 1261, [17]p + [1 blank]f. Brownish-yellow cloth, gilt; pale green endp. 16.6 x 10.2 cm(6 1/2 x 4 in), 7 cm(2 3/4 in) deep. JSL.

Cont: blank f; tp; blank f; tp; dedic; pref; epigrams; author names; letter; text; indexes; blank f.

Book 16, p 715-71, contains 104 short chs on as many mineral substances as earths, stones, ores, metals, salts, etc, as well as gemstones, the latter often given names that now defy identification of the materials concerned. Gemstones are alabaster, adamante, amethyst, agate, alabandina, beryl, carbuncle, chrysoprase, chalcedony, chrysolite, rock crystal, coral, carnelian, hematite, heliotrope, jet, jasper, hyacinth, pearl, marble, onyx, opal, prase, sapphire, emerald, sard, sardonyx, topaz, turquoise; very brief descriptions with comments on curious or medicinal lore associated with each.

425. BARTLETT, NORMAN

The | Pearl Seekers | Norman Bartlett | With 56 Illustrations | and endpaper maps | Andrew Melrose | Stratford Place | London [1954]

8°: 312 p; glossy front photo pl tip-in + 56 photos on both sides of 19 bound-in glossy f, all tinted green. Black cloth, gilt spine title. Endp sketch maps Australia & adjacent islands. Col dj, resume, advert. 21.3 x 13.7 cm(8 3/8 x 5 3/8 in). Cut. JSL.

Cont: 1/2tp; tp; publ data; dedic; tab cont; ill list; 18 chs; biblio 53 entries.

Fascinating personal narrative of pearl-fishing experiences in waters around northern Australia; largely historical account, researched with obvious care, with valuable information on pearling, the fisheries, their growth, the pearl mollusk natural history, and commerce in pearls & shell. Rev *J Gemm*, 4, 7, 1954, p 321-2.

426. -----1954, American edit

The | Pearl Seekers | ... | With 57 Illustrations | and endpaper maps | Coward-McCann, Inc. | New York

Same; ill list now counts in the frontispiece; at least 4 impressions made of this edit.

427. -----post 1954?, paper

The | Pearl Seekers | [orn rule] | Norman Bartlett | This Is An Arrow Book | published by | Andrew Melrose Limited [London, nd]

P [4]: "89th Thousand," in series "Illustrated Giant Arrow."

Cementb: 320 p, 22 photos on both sides 8 glossy f inserted as fours in two places. Col wrap, drawing dagger-armed diver on covers. 18 x 11.3 cm(7 1/8 x 4 1/2 in). Identical text, entirely reset.

428. BARTOLI, LANDO & MASER, EDWARD A

Lando Bartoli | Edward A. Maser | Il Museo Dell' Opificio Delle | Pietre Dure Di Firenze | (55 Illustrazioni) [By the museum, Florence, nd, ca 1955]

8°: 78, [2]p; 55 fig. Heavy white paper wrap, black lett, col rect design; back cover Florence street map showing museum loc. 21.5 x 15.8 cm(8 1/2 x 6 1/4 in). Cut. 450 lire. JSL.

Cont: floor plan inside front cover; tp; publ data; history; workshop; museum; glossary; same in English; photos on p 37-69; ill lists; publ data; blank p; first floor plan inside back cover.

Guide to the famous Florence museum in which is preserved the finest extant collection of Florentine inlay work or intarsia, also examples of other kinds of lapidary work which all utilize a large variety of ornamental gemstones. The illustrations are rather poor and do not do justice to the real magnificance of the articles illustrated.

BARTOLI, PIETRO SANTI, or SANTE, SANTO, PETRO SANCTE(ca 1635-1700)

B Perugia; studied painting under Nicolas Poussin(1594-1665), "whose style he imitated with great success;" became a skilled plate engraver, for which work he is best known; d Rome.

429. -----1713 Le Cabinet d'Antiquités, & principalement des Pierres Gravées de Dom Livio Odescalchi, Duc de Bracciano, en quarante-trois Planches gravées par Pietre-Sante Bartoli, sans discours, précédées d'une Estampe servant de frontispiece, gravée en 1702. Rome in 4°, grand pap [1713].

Not seen: above from Mariette, *Traite des Pierres Gravées*, 1, p 452, explan p 287. Compare with the following, Marlborough Rare Books, London, Catalogue 117, 1986, no 84:

[Collezione di Gemme intagliate la più parte provenienti dal Tesoro del Duca Odescalchi], folio, fine engraved portrait of Odescalchi by Gustave Ameling, dated 1702, and 53 plates... [Rome, ca. 1713. "Cicognara 2744. The extremely rare First Issue of Bartoli's engravings of the Odescalchi collection of engraved gems and sculptures which had originally belonged to Queen Christina of Sweden. Commissioned by the Duke from Bartoli ...the project of a catalogue was dropped at the Duke's death in 1713 and only a few sets of the plates were printed. It was not until 1747 that they were published with text." Mariette gives this as the first edition despite the lack of text, and calls the 1747 edition the second.

Livio Odescalchi, Duke of Bracciano(d 1713), nephew of Pope Innocent XI(1611-1689); antiquary, amassing a large and important collection in his lifetime.

430. -----1747

Museum | Odescalcum | Sive | Thesaurus | Antiquarum Gemmarum | Quae | A Serenissima Christina Svecorum Regina collectae | in Museo Odescalco adservantur, | Et a Petro Sancte Bartolo quondam incisae, | nunc primum in lucem proferuntur. | Tomus Primus[-Secundus]. | [rect engrav vignette] | Romae MDCCXLVII. | Prostant apud Venantium Monaldini Bibliopolam in Via Cursus. | [rule] | Superiorum Facultate. [1747; title in red & black]

In 2 vols, but usually bound as one.

Vol I: 2°: [4]f, pi^2, b^2 + 54 engrav pls of gems, one per pl. Finely engrav front portrait pl of Odescalchi, in armor, surrounded by allegorical figs; pl signed "C.G. ab Amling Sculpsit. 1702"(by Charles Gustave Amling, after a design by Carle Maratte; Mariette, *Traité des Pierres Gravées*, 1, p 287). 33.3 x 22.8 cm(13 1/8 x 9 in). Cut. JSL.

Cont: front pl; tp; pref; index to pls; pls.

Vol II: [2]f, pi^2 + 49 pls + [1]f bearing title vignette of vol I.

Cont: tp; index of pls; pls; vignette.

Full comments by Mariette, *ibid*, p 286-7. The first volume all engraved gems, but the second, pls 55-103, includes engrav gems to pl 74, pl 75 and subsequent pls depicting statues, busts, bas reliefs, etc. A Furtwängler, *Die antiken Gemmen*, 3, p 408, states that the first edition contained 43 pls of engraved gems but lacking any logical order, numbering, or dimensions, but praises the quality and fidelity of the pls.

431. -----1751-52, with commentary by Galeotti

Museum | Odescalchum, | Sive | Thesaurus | Antiquarum Gemmarum | Cum Imaginibus In Iisdem Insculptis, Et Ex Iisdem Exsculptis, | Quae A Serenissima Christina Svecorum Regina Collectae | In Museo Odescalcho Adservantur, | Et A Petro Sancte Bartolo | Quondam Incisae, | Nunc Primum In Lucem Proferuntur. | Accesserunt Aera Deorum, Ac Dearum Idola, Marmorea Item Anaglypha, | Monumentaque Alia Plura, Quibus Omnibus Explanationes | Una Cum Indicibus Locupletissimis Adjectae Sunt. | Tomus Primus [-Secundus]. | [rect engrav vign] | Romae MDCCLI [-MDCCLII]. | Sumptibus Venantii Monaldini Bibliopolae In Via Cursus. | [rule] | Ex Typographia Sancti Ignatii. | Excudebat Joannes Generosus Salomoni. | Praesidum Facultate. [1751-2; title in red & black]

Vol I: 2°: [3], [1 blank], XLVIII, 60 p + 49 bound-in pls; pi, $a\text{-}m^2$, $A\text{-}P^2$; 11 engrav head- & tailpcs; 3 engrav inits & numerous woodcut inits. 32.8 x 22.2 cm(13 x 8 3/4 in). Cut. JSL.

Cont: 1/2tp; tp; dedic; imprimaturs; pref by Galeotti; poem by same; pls index; pls explanations; pls.

Vol II: XVII, [1 blank], 133, [1 blank]p + 55 engrav pls bound-in; pi^2 $b\text{-}e^2$, $A\text{-}Kk^2$ + [1]f supplied(p 133 + blank); Pl 35 repeated to show different views of same statue; 9 engrav head- & tailpcs; 3 engrav inits; 1 woodcut tailp.

Cont: 1/2tp; tp; dedic; pref & poem by Galeotti; imprimaturs & approbations; pls index; pls explanations; author index; index to entire work; errata & corrigenda; blank p; pls.

Whereas the previous edition was little more than the plates preceded by front matter and brief introductory, the present work, utilizing the same plates, is greatly expanded by a text provided by Niccolo Galeotti (1692-1758), Society of Jesus. The plates were slightly altered to insert plate numbers in most but not all plates. Text portions are now supplied with a rich assortment of excellent engraved head- and tailpieces as well as attractive wood-engraved initials. By now the plates show signs of wear and produced grayer, less sharp impressions.

The preface to the first volume is an extended essay on the gemstones used in engraved gems, giving first a list of those used, followed by discussions of each with references to earlier literature in which they were mentioned or described. Separate paragraphs treat agate, amethyst, aquamarine, chalcedony, carnelian, rock crystal, garnet, heliotrope, hyacinth, jasper, lapis lazuli, onyx, ruby, sardonyx, emerald, plasma, and pastes, Other paragraphs discuss stones containing imagined scenes or figures(lusus naturae), inscriptions on gems, names of artists and aliases, uses of engraved gems, curious lore, and other topics. A poem, rather more like a sermon, dated 1746, lauds the study of antiquities, and, after an index to plates, is followed by the main text which describes the objects depicted on the plates, which in the first volume, to Plate 46, are all engraved gems, thereafter appear busts carved in ornamental stone. The second volume contains a short preface on antiquities in general, with references to noted collections and works descriptive of same, followed by a sermon, imprimaturs, plates index, and descriptions of the plates which depict engraved gems to Plate 32, thereafter statues and a variety of objects in metal, bas reliefs, etc. A Priapus, Plate

36, attracted the attention of Goodland, *Bibliogr Sex Rites*, p 224, who catalogs the present work under Galeotti. See also Vinet 1622, who declared Bartoli to possess a talent both brilliant and facile, noting that the aqua-forte engravings were done "by a burin as supple as a crayon." Cicognara 2745. Aldini, *Institut Glittogr*, 1785, devotes an entire chapter to this edition and its contents, p 147-72. King, *Antique Gems and Rings*, 1, p 462, notes that "each plate gives a single gem, much magnified, for the most part very well drawn, and etched in a somewhat sketchy manner." See also P & H Zazoff, *Gemmensammler*, p 117-21. Marlborough Rare Books, London, Catalogue 117, 1986, no 85: "best edition. In 1654 Queen Christina made her home in Rome under the patronage of the Odescalchi family... on her death in 1689, her collections of paintings and gems were bought by the Pope's nephew and placed in the family Museum Odeschalchum."

BARTOLOZZI, FRANCESCO(1727-1815)

B Florence, stud art there & in Rome & Venice, becoming most expert in engraving; responding to an appeal from George III's librarian, moved to London in 1764 where he stayed for 40 years in a close working relationship to his friend from boyhood, Cipriani. Specially admired for soft-ground etchings. Original mbr Royal Academy; from Engl to Portugal 1802; d Lisbon. DNB. G B Cipriani b Florence 1727; skilled artist & engrav, noted mainly for his drawings which were engrav by Bartolozzi and used chiefly in book illustration & prints; 1750 to Rome, but in 1755 to England: apptd Royal Acad 1768; d London 1785. DNB.

432. -----186-?

One Hundred And Eight Plates | Of | Antique Gems | Engraved By | Francesco Bartolozzi [Np, London?; nd, ca 186-?]

Loose pls + [2] letterpress f in a portfolio. Cont: [1] f title; [1] f "contents," ie, index to gems; [2] engrav frontispieces + 50 engrav pls, 1 gem/pl, numbered I-L + another 59 pls similarly numbered + 8 unnumb pls for a total of 110 pls. Portfolio made from thin card stock covered with very dk green cloth, and, in gold, on the cover: "Marlborough | Gems | Enlarged | [blind floral orn] | Engraved | By | Bartolozzi." There appears to be no data on publisher, printer, or agent involved in the production of this work although it is probable that Bartolozzi himself published at his own expense. Plate & letterpress size: 36.2 x 27.4 cm(14 1/4 x 10 3/4 in). Portfolio size: 36.6 x 27.3 (14 3/4 x 10 3/4 in). Portf with 3 inward-fold flaps. Another set measures leaf size: 44.5 x 29 cm(17 1/2 x 11 3/8 in), in dk blue cloth, blind horizontal rules on both covers; gold cover title, i.e., "Gems From The Antique." JSL; USGS Kunz Coll; GS 34-576.

First 50 pls designed by Cipriani; both B and C signed the pls as well as the front pl, dated 1780, London. Second series lack signatures except for 2 pls, but it is known that all were done by C & B, except for the final 8 unnumb pls, one of which is signed J K Sherwin as designer & engraver, and another designed by Lady Diana Beauclerk but also signed by B. as engraver. For additional details on original appearance of these pls, see MARLBOROUGH GEMS. Complete sets rare.

433. BARTON, RICHARD

Lectures | In | Natural Philosophy, | Designed, | To be a foundation, for reasoning pertinently, | Upon The | Petrifications, Gems, Crystals, | And | Sanative Quality | Of | Lough Neagh in Ireland; | And intended to be | An Introduction, to the Natural History | Of | Several Counties contiguous to that Lake, | Particularly | The County of Ardmagh. | [rule] | By Richard Barton, B.D. Author of the Analogy of Divine Wis- | Dom, in the Material, Sensitive, Moral, Civil, and Spiritual System of Things. | [rule] | [3 quotations, 9 lines] | [rule] | Dublin: | Printed for the Author, by A. Reilly, and sold by George and Alexander | Ewing, at the Angel and Bible in Dame-street. M, DCC, LI. [1751]

4°: xvi, [8], 184 p + p 209 [sic] + [1]p; pi^4, B-Bb^4, C^2; 7 engrav pls bound-in. one is front, and 3 are fold(includes a map). The pl facing p [47] misnumb "6" and should be 3. Woodcut tailpcs. 25.2 x 20.3 cm (9 7/8 x 8 in). Cut. JSL; Ward & Carozzi 130; GS 6-937; Agassiz I, 206.

Cont: pl; tp; dedic; author's pref; subs list; text in 6 "lectures" each with own title; errata(p 209); addit remarks.

Barton(introd) notes that "this book is printed upon paper made in Ireland; with types and gravings also of the artificers of the country." Lectures: 1. a philosophical discussion of the nature of matter in terms of the four "elements," namely, air, fire, water, and earth, 2. a continuation of same, 3. replacement of wood by mineral matter, with detailed descriptions of petrified wood found in the immediate vicinity of Lough Neagh, also a short catalog of specimens and so-called "gems" as the pseudo-adamas (quartz ?), the mocoa stone, and the carnelian, 4. a continuation on petrified wood and descriptions of crystals which answer well for gypsum, with specific localities, 5. role of water in petrification of wood, with an appendix on the movement of water in and out of the lake, and last, 6. on gemstones, p [159]ff. The title of this last lecture is as follows: Gems; | Or, The | Physico-Mechanical Lecture: | Being The | Productions of Lough Neagh, | Of the more precious Kind, | Applied to Use by | Mechanic Arts. | Together With | The Physical Cause of Gems. | [rule] ...

Most remarks of interest to gemologists are in this last chapter. After urging women to participate in the study of science, Barton provides a lengthy footnote on the gems in the High Priest's breastplate, with particulars on crystals, agates, mocoas(jasper?), pseudo-adamantes, and "at some distance from the lake" topazes or amethysts, and "some fifteen miles" from the lake, what appears to be amethyst. Beach pebbles below Wicklow are also mentioned. The only text figure appears here and shows a design for the lid of a box set with cut and polished native gemstones in the author's possession. The rest of the lecture discusses growth of gemstones in which Barton deems the role of water to be of utmost importance. The engraved plates depict a view of the lake, a geometric diagram, fossil woods(2 pls), fossils(2),and a series of 6 maplets all on one plate of Lough Neagh, each being after a previously published map, including Mercator and Blaeu.

Barton's book is perhaps the lengthiest contribution to the long-enduring argument as to the supposed petrifying properties of the lake waters, which reached its climax in a paper entitled "On the petrifications of Lough-Neagh in Ireland," by James Simon, of Dublin, in the *Philosophical Trans of the Roy Soc of London, Abridged*, vol 9, 1809, p 282-88, followed by another paper on the same subject by the Right Rev Dr George Berkeley, Lord Bishop of Cloyne, p 288-90; many other articles on this controversy appeared earlier in the same work.

434. BARTSCH, CHARLOTTE Danzig und der Bernstein. *Westpreussen Jahrbuch*, Münster/W, 21, 1971, p 93-102; *Palmnicken und sein Bernstein*, München, 1974, 294 pp. Not seen; from G R v Bock, 1981, p 172.

435. BARY, RENE

La | Physique, | Contenant Les | Elemens, les Metheores, | les Pierres, les Mineraux, | & les Plantes. | Par Rene Bary, Conseiller | & Historiographe du Roy. | Tome II. | [publ logo & portrait of Jesus] | A Paris, | Chez Iean Covterot, ruë | S. Jacques, a l'Image S. Pierre. | [rule] | M. DC. LXXI. | Avec Privilege du Roy. [1671]

8°: [10] p + p 427-757 + [1 blank]p; second part: 244 p + [2]p errata. 15.6 x 8.9 cm(6 1/8 x 3 1/2 in). Cut. JSL.

First vol not seen. P 673-757, contain the material on "pierres," including most of the information on gemstones in addition to the common sorts of stones, with remarks on nature, forms, origins, etc, and afterwards, p 702-759 appear specifics on diamond, sapphire, opal, topaz, emerald, carbuncle, ruby, garnet, almandine, hyacinth, amethyst, and "pierres diaphanes, & non rayonnantes," as rock crystal, "draconite," and talc. Stones that are transparent and in part opaque include agate and chalcedony varieties and are followed by opaque stones as turquoise, armenian stone, "chrysols," amianthus, selenite, marble, jasper, and pearls. Opaque stones are steatite, nephrite, lodestone, and others. The second part on minerals is a potpourri of ores, salts,and metals, and aside from amber, p 44-50, contains little of interest to the gemologist.

While the above description admittedly leaves much to be desired I have not been able to even locate a reference to this work, no less view a copy of the first volume, nor to determine any facts about the author and his aim in producing this work.

BASDEN, H, see MARKHAM, N L

BASKERVILLE, CHARLES, see KUNZ, G F, 1903.

BASSERMANN-JORDAN, ERNST von (1876-1932)

German collector/connoisseur of art & timepieces; stud art hist U Munich(PhD); prof U Munich; became renowned expert in hist & technol of timekeeping. NDB 1, 623-4.

436. -----1909

Der Schmuck | Von | Ernst Bassermann-Jordan | Mit Farbigem Titelblatte | Und 136 Abbildungen | Leipzig 1909 [small circle] Verlag Von | Klinkhardt & Biermann. [Tp with vert/horiz rules forming boxes enclosing print]

P [1]: "Monographien Des Kunstgewerbes | XII. (Neue Folge).. ."

8°: XII, 134, [2]p; glossy col front pl tip-in + 136 text photos (many multiple). Pale blue, ribbed paper over bds, med blue cloth spine; black panel on cover with white rules enclosing white lett; white lett spine, Very pale green endp but foxed, brittle. 25.5 x 18.25 cm(10 x 7 1/8 in), Cut. Glossy paper. LC 10-24471; JSL.

Mostly on the ornaments worn by Germanic peoples or those under Germanic influence from earliest times to 19th c. Over half the text treats jewelry of the Merovingian period, many pieces of which, of a high order of craftsmanship, are set with gems, notably garnets. Useful and highly regarded.

437. BASSLER, RAY S The formation of geodes with remarks on the silicification of fossils. *Proc USNM*, 35, 1908, p 133-54, Pls 18-24. JSL. Bassler believes that geodes in fossil-bearing sedimentary strata form by silicification of fossils which then serve as nuclei for geode development; gives many examples of fossils and geode types on the plates.

438. BASTA, E Z & ZAKI, M Geology and mineralisation of Wadi Sikeit area, south-Eastern Desert. *J Geol UAR*, 5, 1, 1961, p 1-38, chart, 2 text fig, Pls 1-8, 7 tabs. Geology and mineralogy of the area in which the Egyptian emerald deposits occur; details on mineralogy of fluorite, beryl, tourmaline, micas. Several pls show views in the emerald mine area. 17 refs.

439. BASTELAER, DÉSIRÉ ALEXANDRE VAN (1823-1907)

L'Ambre Taillé Ou Veritable | Et | L'Ambre Moulé Ou Faux | Dans L'Antiquité. | [orn rule] | Recherches Chimiques Et Archéologiques, | Par | D.-A. Van Bastelaer, | Pharmacien, |... [3 lines of mbrships] ... | [orn rule] | Bruxelles, | Imprimerie De Vve Julien Baertsoen, Succ^r^ De Bols-Wittouck, Grand'Place, 5. | [rule] | 1876

8°: 19, [1 blank], 1, [1 blank], [2 advert]p. Pale gray wrap, title on cover. 23 x 14.7 cm(9 x 5 3/4 in). Uncut. USGS Kunz Coll; GS 34-285.

Cont: tp; text; tab cont; advert.

Ancient amber artifacts, esp used as amulets, and confusion between genuine ambers and the more recent copal-like resins which also have been found among the relics of ancient civilizations, eg, in Rome. Results of chemical research on ambers & resins.

BASTIN, EDSON SUNDERLAND(1878-1953)

B Chicago; AB U Mich; PhD U Chicago 1909; ScD(Hon) U Mich 1941; USGS 1904-19; prof econ geol U Chicago 1920; ret 1944. Mem A L Anderson, *Proc Vol, GSA, Ann Rpt for 1954*, 1955, p 87-92, portr.

440. -----1910 Economic geology of the feldspar deposits of the United States. *USGS Bull* 420, 1910, 85 p, 8 pls(3 col geol maps, 2 fold). Print wrap. JSL. Mentions gemstones, when such are found in granitic pegmatites worked for commercial feldspar, esp in New England, eg, feldspar, tourmaline, beryl.

441. -----1911 Geology of the pegmatites and associated rocks of Maine including feldspar, quartz, mica, and gem deposits. *USGS Bull* 445, 152 p, 19 glossy photo pls tip-ins, 8 fig, col fold geol map in back cover pocket. Print wrap. GS 11-96; JSL. First extensive, scientific study of granitic pegmatite deposits in Maine, including a number in which gemstones occur. Esp detailed description of the celebrated Mount Mica pegmatite noted for splendid gem-quality tourmaline crystals; also describes other gem-bearing bodies of Oxford County. Provides geology, mineralogy, gemstone production, history of mining, and other data. Gemstones include beryl, tourmaline, quartz. Several view pls of Mount Mica, its opencast workings, tourmaline crsytals. Important. GS 11-96.

442. -----1931 The fluorspar deposits of Hardin and Pope counties, Illinois. *State of Illinois, State Geol Surv Bull 58*, Urbana, 1931,116 p, 9 pls (2 maps & cross-sects in back cover pocket), 48 fig. Print wrap. Reviews prev work; describes vein deposits, mineralogy, vugs, blanket deposits & mineralogy, origin, mines, prospects, recovery of fluorite, processing, marketing. Deposits noted for splendid vug crystal specimens,

many clear and furnishing faceted gems. GS 31-113.

443. BATCHELOR, S The cabinet of gems... London, 1829, 12° 41 p, col front pl, & another; not seen.

444. -----1840, 2nd edit

The | Cabinet Of Gems; | Or, | Vocabulary of Precious Stones, | Coloured And Arranged According To Their Comparative Value: | Together With | A Description Of The Largest Known | Diamonds And Coloured Gems | In The World; | The Commercial | History Of Rough Diamonds; | An Account of the Pearl Fishery; | And The Regalias Of England, Scotland, &C. | [wavy rule] | By S. Batchelor, | Harrogate. | [wavy rule] | Knaresborough: | Printed By W. Langdale, High-Street. | May Be Had, In London, At Mr. Field's, Profilist To The | Royal Family, No. 2, Strand; Mr. Read, Jeweller, | No. 77, Jermyn-Street, St. James': And | S. Batchelor, Harrogate. 1840.

4°: iii, [1 blank], 72 p; steel-engrav pl of Queen Victoria tip-in front; also tip-in engrav pl of gems, hand col & an engrav pl of famous diamonds. Elaborately embossed purplish cloth, gilt title on cover only; pale brown endp. 21.1 x 13.4 cm(8 1/4 x 5 1/4 in). Cut. JSL.

Cont: pl; tp; pref; col pl; pl explanations, blank p; text(diamond pl facing p 23);

Begins with the "vocabulary" of gemstones, that is, a dictionary in which are briefly described 63 gemstones, beginning with diamond and passing through the usual gemstones as corundum, emerald, opal, topaz, etc, but including such curious examples as the "red topaj," the "crisolica," "vermilion," and others which are so vaguely described that they cannot be identified. Next appears the famous diamonds plate, facing p 23, and descriptions of same to p 38, and forming a more useful contribution than its predecessor section. Ceylon's pearl fishery is given a few well-chosen remarks, and is followed by descriptions of the regalias of England and Scotland. The final part, commencing with the commercial history of diamonds, really treats the stones from Brazil and how they are mined, and is followed, without captions, by discussions of curious lore of gemstones, automata, and accounts of church and other treasures of gems & jewels. Valuable nuggets of information are to be found here and there but the work is marred by numerous errors in spelling and fact. Perhaps the most valuable feature is on famous diamonds, with the Hope being briefly discussed and shown upon the plate. Rare.

445. -----1846, 3rd edit

The | Cabinet Of Gems, | Or | Vocabulary Of Precious Stones, | Arranged According To Their Comparative Value: | Together With | A Description Of The Largest Known | Diamonds And Coloured Gems | In The World; | The Commercial | History Of Rough Diamonds; | An | Account Of The Pearl Fishery; | And The | Regalias Of England, Scotland &C. | [rule] | By S. Batchelor, | Harrogate. | [rule] | MDCCCXLVI. [1846]

4°: III, [1 blank], 96 p; same pls but front pl & famous diamonds pl with tissue & paper. Trade binding not examined; private binding 20.8 x 13.5 cm(8 1/4 x 5 1/4 in). Cut.

Cont: pl; tp; pref to 3rd edit; pl explan; pl of cut gems; text(etc).

Entirely reset, with numerous additions & corrections, with the last part augmented by descriptions of chrysoprase, hydrophane, kyanite, corals, remarks on curious lore, prices and trade in gems, lapidary work on diamonds, gem cut proportions, and improvement of color. Also rare. I do not know if this is the last edit.

BATES, ALBERT CHAPIN (1857-1931)

B Providence, RI; hardware merchant in NYC, residing Newark, NJ; editor *The Mineral Collector*, 1894-1909, which superseded *Minerals* magazine, of which Bates was co-editor with Arthur Chamberlain.

446. -----1895

Quartz And Its Varieties | Including | Rock Crystal, Amethyst, Agate, Jasper, | Agatized Wood, Smoky Quartz, Etc., | With A Description Of | Localities. | By | Albert C. Bates. | [doubly-term quartz crystal on its side] | Published By | Arthur Chamberlain, | 237 North 7th Street, | Newark, N.J. [1895; short rules inserted in title]

8°: edgestapled: [4]f + 56 p (p 47-56 adverts), 6 tip-in glossy photo pls; 14 fig Pale brown print wrap, badly foxed, brittle. 24.5 x 16.2 cm(9 5/8 x 6 3/8 in). Cut. Pale tan text paper. GS 34-201; JSL.

Cont: tp; pref; publ note on original placement of pls; ill list; front pl; text; advert.

According to the preface, this material was printed in parts in the June and ending in December, 1895 numbers of *The Mineral Collector*. Despite its small size, this booklet contains a very large amount of information on the many varieties of quartz, much of it fascinating reading, sometimes presented in factual, sometimes in anecdotal fashion, but generally quite accurate. The author was very fond of peculiar crystallizations to which much space is devoted, but also provides much of interest to the gemologist on crystalline and cryptocrystalline varieties sometimes used as gem material. Describes material & sources from deposits in the United States, Nova Scotia, and Mexico. Now rare esp with intact wrap.

BATSEVICH, L F, see FERSMAN, A E, 1920

447. BATTKE, HEINZ

Heinz Battke | Die Ringsammlung | Des | Berliner Schlossmuseums | zugleich eine | Kunst- und Kulturgeschichte | des Ringes | Mit 134 Abbildungen auf | 16 Lichtdrucktafeln | [rule] | Leonhard Preiss Verlag Berlin | 1938

4°: 114 p(first p blank); 134 photos on 16 stiff-paper pls bound-in at end of text, each pl with pale tan background panel. V pale blue heavy paper wrap, blue title on cover & spine. 25.9 x 19.2 cm(10 1/4 x 7 1/2 in). Cut. JSL.

Cont: blank p; publ data; tp; tab cont; fwd; arrangement of exhibit; introd; 3 chs; descriptive catalog; biblio(p 100-2, 100 entries); index; pls tp; pls.

An excellent work, as notable for its preliminary material on the finger ring and its history, as for the descriptions of specimens in the exhibit. The first chapter treats development of the ring throughout the ages, followed by a chapter on ring uses, and a short chapter on wearing of rings. Both this part and the catalog are richly supplied with references. Descriptions include materials, provenance, inscriptions, if any, and other facts but dimensions are not given, these being approximately deduced from the photographs which are 1.5-x enlargements.

The latter are fair to good quality, but a number are less sharp than desirable.

448. -----1953

Heinz Battke | Geschichte Des Ringes | In Beschreibung und Bildern | Dargestellt Durch Die Sammlung Battke | Mit 205 Abbildungen | [rect vignette] | Woldemar Klein · Baden-Baden [1953]

8°: 111, [1 blank]p; tip-in col glossy front pl + 28 pls on both sides of 14 tip-in glossy f(except one that is double f & sewn-in). The pls present b&w photos on pale greenish-yellow panels, bordered in white. V pale gray-blue cloth, author's monogram in gold on cover, gold lett spine. White dj, col photo on front with black lett; back cover vignette; flap adverts. 27 x 20.6 cm(10 5/8 x 8 1/8 in). Cut. JSL.

Cont: 1/2tp; pl; tp; publ data; tab cont; fwd; introd; catalog; index of rings according to uses; biblio(p 109-11, 86 entries); blank p.

Richly annotated catalog of 160 rings in author's collection, the bulk of which took more than 30 years to assemble. From various periods and cultures but selected on the basis of use in ornament or because of supposed magical or curative powers. Entries identify each ring, give approximate date of manufacture, culture to which assigned, detailed descriptions, & commentary. Large variety, chosen shrewdly; many are set with gemstones or engraved gems. Handsome, useful, authoritative. Taylor & Scarisbrick, *Finger Rings*, 1978, p 99 "a thoroughly reasoned and researched catalogue."

449. -----1963 Ringe Aus Vier Jahrtausenden, Gesammelt und beschrieben von Heinz Battke, Mit einem Nachwort versehen von Otto Friedrich Regner. Im Insel-Verlag, 1963. Oblong 8°: 49, [3]p, 15 col pls. 11.5 x 18 cm(4 5/8 x 7 in). Cut. Orange paper over bds, col ill & gray panel on cover; white spine, black lett. Transp paper dj. Glossy paper. Not seen.

Depicts & describes 50 antique rings, many set with gems, with an amplifying dissertation by Regner on rings as cultural-historical objects.

450. BATURIN, R A Almazy i surrogaty v burovom dele i praktika ikh chekanki. Moskva & Leningrad, 1932, 54 p. Not seen.

BAUDELOT DE DAIRVAL, CHARLES CÉSAR (1648-1722)

Erudite Fr antiquary with special interest in numismatics; antiquary to Madam Doüairiere d'Orleans; mbr Académie Royale des Inscriptions et Belles Lettres. Martin Lister(1638-1712) spoke highly of Baudelot whom he visited frequently in Paris where he was shown his collections of books and numerous antiquities (*A Journey to Paris in the Year 1698, 1699*, p 47-53).

451. -----1686

De | Utilite' | Des | Voyages, | Et De L'Avantage | que la Recherche des | Antiquitez procure | aux Sçavans. | Par M. Baudelot De Dairval, | Avocat en Parlement. | Tome I [-II]. | [woodcut crown] | A Paris, | [to left:] Chez | [curved brackets enclosing 3 lines:] Pierre Auboüin, | Et | Pierre Emery | [to right, 4 lines:] Quay des Augus- | tins, a l'Ecu de | France, prés l'Hô- | tel de Luynes. | [rule] | M. DC. LXXXVI. | Avec Privilege Du Roy. [1686]

Vol I: 12°: in alternating 8's & 4's: [20], 360, xix(recte xx), [2] p; pi^8, pi^2, A^8, B^4, C^8,D^4...Gg^4, $*^7$, $**^4$; 58 engrav & 7 woodcuts in text; also 8 ill of inscriptions, made by combining letterpress & ornaments; a cut-out engrav is pasted over a text engrav on p 190 (the same engrav is actually covered over, but is so poorly printed that the overlay was deemed necessary!). Ch orns, inits. 16.7 x 10 cm(6 1/2 x 4 in). Cut. LC 4-35133; JSL.

Cont: tp; pref; tab cont; privileges; dedic; text; addition; errata.

Vol II: [6]p + p361-732 + [18]p; pi^4, Hh^8...Mmm^4, N^8,O^4, P^8, Q^4, R^8, S^4. 33 text engrav & 8 small text woodcuts; ch orns, init.

Cont: tp; tab cont; text; notes; author list; errata; blank p.

Vol I is especially replete with every typographical error imaginable: mispaginations, missignings, page & signature number duplications, inversions, spellings, etc; the errata leaves only begin to sample the rich resources of error.

Essays on the theme that antiquities obtained through travel in historical lands increase and preserve our knowledge of ancient cultures. Volume one opens with a long discourse on travels of ancient writers who recorded their experiences and thus preserved what they saw for succeeding generations. This essay takes up 15 chapters and is liberally studded with quotations from such accounts. Next are short essays on researches in medals, inscriptions, statuary, a passage in Seneca, lares figures, paintings and bas-reliefs, a commentary on archeology in general, architecture, engraved gems (p 293-349), various types of antiques and the collections in which preserved, the cabinet of the King of France, and an appendix or remarks on foregoing sections.

The second volume begins with an essay on talismans (p 361-401), followed by short essays on medals, coins, coinage metals, and a long section of advice to would-be travelers. To gemologists, the extended remarks on engraved gems in the first volume, and to a lesser degree, the remarks on talismans in the second volume will prove useful and informative. Engraved gems are treated according to their uses as seals, in jewelry, as wards or talismans, as religious symbols, eg Gnosticism, as fertility and health aids, etc, with closing remarks on the selection and purchase of engraved gems. Mariette, *Traité Pierres Gravées*, 1, 1750, p 258-60, provides a detailed analysis; see also Zazoff, *Gemmensammler*, p 33. Several engraved gems attracted the attention of Goodland, *Biblio Sex Rites*, p 39; see also Furtwängler, *Antiken Gemmen*, 3, p 407.

452 -----1693, another edit

L'Utilité | Des | Voyages, | Qui concerne la connoissance des | Medailles, Inscriptions, Statues, | Dieux Lares, Peintures Anciennes, | Et Les Bas Reliefs, Pierres | Precieuses Et Grave'es, Cachets, | Talismans, Anneaux, | Manuscrits, Langues, | & autres choses remarquables. | Et l'avantage que la recherche de toutes ces Antiquitez | procure aux Sçavans. | Avec une Memoire de quelques Observations generales | qu'on peut faire pour ne pas voyager inutilement. | Par | M. Baudelot De Dairval, | Avocat en Parlement. | Enrichis de plusiers figures en taille douce. | Tome Premier[-Second]. | [2 rows of orns] | A Paris, | Chez Pierre Auboüin, Pierre Emery, | & Charles Clousier, Libraires. | [rule] | MDC. XCIII. | Avec Privilege Du Roy. [1693; title in red & black]

Vol I: 12°: [12], 374 p; $*^6$, A-P^{12}, Q^8; finely engrav, elaborate title facing the letterpress title(included in pag) and depicting many of the objects treated in the essays and with a large phallus in lower right (but not noticed by Goodland, ibid);

62 engrav, 8 ill of inscriptions, 3 woodcuts in text. One of the engravings, facing p 264, is now printed on a separate inserted f not included in pag. 16.1 x 10.3 cm(6 3/8 x 4 1/8 in). Cut. JSL.

Cont: engrav tp; tp; pref; tab cont; dedic; text.

Vol II: [8]p (includes engrav tp) + p 383-781 + [5]p; R^4, S^4, T-Ll^{12}, Mm^6; the fine engrav title differs entirely from Vol I; 34 engrav, 1 woodcut in text.

Cont: engrav tp; tp; tab cont; text; list of authors.

Entirely reset; engrav titles added; previous errors largely eliminated; the "additions" of prev edit now incorporated in text; on the whole, much more workmanlike edition.

453. -----1715, Leyden edit L'Utilité des voyages... Lugduni Batavorum: Petrus Vander AA. 1715. 2 vol, 8°. Not seen: probably a reprint of previous entry.

454. -----1727, new edit, Rouen

De | L'Utilité | Des | Voyages, | Et De L'Avantage | que la recherche des Antiquitez | procure aux Sçavans. | Par M. Baudelot De Dairval, | Avocat au Parlement. | Nouvelle Edition | revuë, corrigé & augmentée, | Avec Figures. | Tome Premier[-Second]. | [orn] | A Rouen, | Chez Charles Ferrand, attenant | le Palais, & ruë Ganterie vis-à-vis | la ruë de l'Ecole. | [rule] | MDCCXXVII. | Avec Privilege Du Roi. [1727]

Vol I: 12°: [8], 436 p + 21 engrav pls bound-in at end of text; $**^4$ [sic], a^4, A-S^{12}, T^2. 16.7 x 9.5 cm(6 5/8 x 3 3/4 in). Cut. JSL.

Cont: tp; new edit pref; avertiss; laudat; tab cont; text; pls.

Vol II: [8], 450 p + [22]p; a^4, A^6, B-V^{12}, X^2; 9 engrav pls at end of text.

Cont: tp; tab cont; privilege; text; author list; pls.

Entirely revised, reset; former text engrav eliminated with new engrav pls of same subjects bound-in. Brunet 6, 28950; Cicognara 2751.

END OF VOYAGES

455. -----1698 Histoire de Ptolomée Aulétès, Dissertation sur une Pierre gravée du Cabinet de Madame, par Charles-César Baudelot de Dairval. Paris, 1698. 12mo. Not seen: from Mariette *Traité Pierres Gravées*, 1, p 459.

456. -----1708 Explication d'une Pierre gravée dont l'empreinte a été envoyée à l'Académie des Inscriptions & Medailles au mois de fevrier 1708. [Paris, 1798?], (1), 14 p, pl. 8°. Not seen: from Goodland, *Biblio Sex Rites*, p 39.

457. -----1710 Explication d'une Pierre gravée du Cabinet de Monsieur le Comte de Pontchartrain. Paris, 1710, 144 p, vignette & fig, plate. Not seen; from Goodland, ibid.

458. -----1717

Lettre | Sur | Le Pretendu Solon | Des Pierres Gravées | [rule] | Explication | D'Une Medaille D'Or | De La Famille Cornuficia. | [large woodcut vignette, Juno] | A Paris, | Chez Jean-Baptiste Lamesle, Imprimeure-Libraire, | ruë du Foin, à la Minerve. | [rule] | MDCCXVII. | Avec Approbation Et Privilege Du Roy. [1717]

4°: [8], 19, [1 blank]p + 59, [1 blank]p; a^4,a-b^4, c^2, A-G^4, H^2; 7 text engrav(one pasted in); engrav pl bound-in facing p 58 but belongs in first part of text. Large woodcut ch orns & inits. 24 x 19.8 cm(9 1/2 x 7 7/8 in). Cut. JSL.

Cont: tp; dedic; approb; "lettre" addressed to Duke of Orleans(signed Paris, 1712); explanation.

The letter in the first part discusses the wrongful attribution of the signature "Solonos" found on certain engraved gems to the Athenian sage Solon; Baudelot cites many examples to show that this could not be the case. The single engraved plate, bearing 15 figures, belongs in this part. The larger part of the text concerns a gold medal. See also Mariette, *Traité Pierres Gravées*, 1, p 386, 459.

BAUDELOT DE DAIRVAL, see ORSINI, F, 1710

459. BAUER, ANTON Untersuchungen zur Kenntnis der spezifisch leichten Zirkone. *Neues Jb Min*, B-Bd 75, Abt A, 1939, p 159-204, 16 tabs, 8 text fig, 13 fig on Pls 8-11, the latter glossy, fold f tip-ins at end of text. Low density zircons(metamict) are chemically identical to normal zircons and rise in density after heating to 1450°C when they approach full recrystallization. Lattice damage attributed to radioactivity from inclusions. Important, detailed study, explaining puzzling property variations, particularly in Ceylon stones.

460. BAUER, JAROSLAV & BAUER, ANNA [Precious stones]. Prague, Artia, 1966(?). This work described below in Ger and Engl editions probably was issued originally in Czech.

461. -----1966, Ger transl

Edelsteine | Artia | Text Von Jaroslav Und Anna Bauer | Fotografien Von Hugo Jelínek [title spread over 2 pp, with large col photo of a flower made from gems and precious metals] [Prague: Artia, 1966]

Transl by Max A Schönwalder, Prague.

4°: 143, [1 blank]p; over 110 ill (mainly col, also line drawings). Black, unfinished cloth, gold gem outline on cover; gold spine title; bright blue endp with gem outlines in white; col dj, resume. 27 x 23.4 cm(10 5/8 x 9 1/4 in). Cut. Plain cardbd slipcase. DM 56. JSL.

Cont: 1/2tp & publ name; 1/2tp; tp; publ data; tab cont; 32 chs; ill list; blank p.

Popular treatise on gemology depending more on pictures than on text. Text treats significance of gemstones, cultural history, occurrences, properties, cutting, esteem & fashion, synthetics & imitations, and many chapters describing individual species, varieties, and organic gem materials. Objects depicted, on uneven quality plates, are mainly in Czechoslovakian national collections and include rough & cut stones, jewels, ornamental objects, crown jewels. Principal value: data & photographs on native gemstones of Czechoslovakia and jewels & gems preserved in that country. Rev *Zs Dt Gemm Ges*, H 58, 1966-67, p 38; *Aufschluss*, 18, 3, 1967, p 119.

462. -----1966, Engl transl

A Book | Of Jewels | Text By J. And A. Bauer | Photographs By H. Jelínek [spread title as before] [Prague: Artia, 1966]

Transl by Alžběta Novakova, Prague.

Identical; the introd ch is not listed in tab cont nor given its own heading. *Rev G & G*, 12, 6, 1967, p 191. JSL. J Bauer also publ *A Field Guide in Color to Minerals, Rocks and Precious Stones*,

London: Octopus Books Limited, 1974, but the information on gemstones is trivial.

463. BAUER, JAROSLAV & BOUŠKA, VLADIMIR(text) TRVZ, FRANTIŠEK(photography)

J. Bauer / V. Bouska / F. Trvz | Der Kosmos- | Edelsteinführer | Edel- und Schmucksteine | Entstehung - Vorkommen - | Eigenschaften - Verwendung | [logo] | Kosmos | Gesellschaft der Naturfreunde | Franckh'sche Verlagshandlung | Stuttgart [1982]

Kosmos Naturtuhrer series. Czech edit not seen.

Transl from the Czech by Felix Seebauer.

8°: 226, [l]p + [l]p advert; 290 col photos & col front; 4 b&w photos; 6 sketch maps(one doublep); 61 drawings; 6 tabs. Black, unfinished cloth, silver title cover & spine; dull red endp; silver & black dj with col photo, resume, other publ books. 19.5 x 13.2 cm(7 3/4 x 5 1/8 in). Cut. Glossy paper. DM 24. ISBN 3-440-04925-6. JSL.

Cont: 1/2tp; pl; tp; publ data; tab cont; introd; text; biblio (p 212, 23 entries); map symbols & maps; index; advert.

Comprehensive popular treatise on gemstones covering most theoretical and technical matters in its first part, followed by descriptions in the second part with a short chapter on lore and a series of sketch maps showing European, Asiatic, American, African, and Australian deposits with symbols representative of material found. Topics include genesis of deposits, rock types in relation to same, tektites, biogenetic materials, properties, determinative gemology, systematics, nomenclature, cutting, synthetics & imitations. Illustrations are generally of high quality. Emphasis placed on European materials with specimens photographed from Czechoslovakian sources. Authoritative & useful. Rev *J Gemm*, 18, 4, 1982, p 353.

BAUER, MAX HERMANN (1844-1917)

B Gnadental, Ger; at 15 began stud in Stuttgart Polytech Inst (min eng), but turned to nat sci & math; further stud in France; returned to stud geol & mineralogy in 1867, obt PhD U Tübingen 1869; asst to G Rose in Berlin 1871; 1874 to prof min & geol U Königsberg, principal 1882-3; thence to prof min petrogr U Marburg to death in 1917. Over 100 articles. Co-edit *Centralbl f Min.* The German publ Tauchnitz asked him to write a comprehensive work on gemstones after seeing Kunz's *Gems and Precious Stones of North America*, resulting in his famous *Edelsteinkunde*, described below. Pogg 3, 81; see biogr note by S R Bach, *The Gemm*, 14, 158, 1944, p 7-9.

464. -----1896 Ueber das Vorkommen der Rubine in Birma. *N Jb f Min, Geol & Paläont*, Jg 1896, 2, 1896, p 197-238, Pl 7, 5 fig. Also separate. Reviews previous accounts and studies, details on occurrences, the gem-bearing marble, detailed descriptions corundums, spinels, chondrodite, apatite, phlogopite, other associates in the marble, and discusses origin in the dolomitic marble of Burma as compared to corundum sources elsewhere not of this type; plate shows crystal forms & growth figs of corundum.

465. -----1896 Der Jadeit und die anderen Gesteine der Jadeitlagerstätten von Tammaw in Ober-Birma. *N Jb f Min, Geol u Pälaont*, 1, 1896, p 18-51; also Jadeit von "Tibet." ibid, p 85-95; On the jadeite and other rocks from Tammaw in Upper Burma, *Rec Geol Survey India*, 1895, 28, p 91-105; On the jadeite and associated rocks in the Upper Burma deposits.

466. -----1897 Rubin und Sapphir Von Dr. Max Bauer, Geheimem Regierungsrath, Professor an der Universität Marburg. Hamburg. Verlagsanstalt und Druckerei A.=G. (Vormals J. F. Richter), Königliche Hofbuchdruckerei. 1897.

"Sammlung gemeinverständlicher wissenschaftlicher Vorträge. Heft 274."

8°:edgestapled, 47, [1 blank]p. Yellow-tan printed wrap. 22 x 14.5 - - cm(8 5/8 x 5 5/8 in). Uncut. Library, Gemm Assoc Gt Brit.

Excellent summary of knowledge about ruby and sapphire, properties, colors, color vs value in gems, heat treatment, nomenclature, chatoyancy, optical properties, origin & location of deposits, methods of mining, misleading terms, other misc data.

467. -----1904 Jadeit und Chloromelanit in Form prähistorischer Artefakte aus Guatemala. *Centralbl f Min*, 1904, p 65-79. Brief descriptions, with sizes, many objects of jadeite & chloromelanite from Guatemala: color, texture, microscopic texture, inclusions, specific gravity.

468. -----1906 Weitere Mittheilungen über den Jadeit von Ober-Birma. *Centralbl f Min*, 1906, p 97-112, fig. Not seen,

469. -----1914 Nephrit und Jadeit. C Doelter's *Handbuch der Mineralchemie*, Bd II, erste Hälfte, 1914, p 649-704, fig, many tabs.Large technical article: chemistry & analyses, including those from H R Bishop's *Investigations and Studies in Jade*, 1906; physical properties; cohesion properties; melting points; reactions to acids & other reagents; nephrite & jadeite as rocks; occurrences & origin. Issued separately.

EDELSTEINKUNDE SERIES

470. -----1896

Edelsteinkunde | [orn rule] | Eine Allgemein Verständliche Darstellung | Der Eigenschaften, Des Vorkommens Und Der Verwendung Der | Edelsteine, Nebst Einer Einleitung Zur Bestimmung Derselben | Für Mineralogen, Steinschleifer, Juweliere Etc. | Von | D$^{R.}$ Max Bauer, | Geheimem Regierungsrat | Professor An Der Universität Marburg. | [rule] | Mit 20 Tafeln In Farbendruck, Lithographie, Autotypie Etc., Sowie | 94 Abbildungen Im Text. | [publ monogram] | Leipzig | Chr. Herm. Tauchnitz | 1896.

8°: XVI, 711, [1]p; 8 tip-in col litho pls with tissues(bearing captions with outlines of subjects shown on the pls; Pl 1 is front); 7 tip-in monochr pls; 4 tip-in b&w pls; 1 tip-in photo pl; 94 fig(includes 18 maps). In some copies the sections are stapled with resulting rusting of steel & damage to paper & binding tapes. Issued in various bindings, probably because the work was issued in parts from 1895-6. The publisher offered complete copies in wrappers @ M 27.50 and in "elegantem Halbfranz[calf]" @ M 31. P size ca 27.8 x 19 cm(10 7/8 x 7 1/2 in). Cut. USGS GS 17-305; JSL.

Cont: pl; tp; transl note; dedic; fwd; tab cont; ill list(with captions); text fig list; introd; text in 3 parts; append on pearl & coral; index; print data.

First edition of one of the greatest gemological works ever published and though leaning on Kunz's work noted above, far exceeding it in respect to comprehensiveness both in regard to world gem localities and the scientific study of gemology. It established a model that was to be emulated for many years. The text, divided into three major parts, treats firstly gemstone properties, occurrences, applications of gemstones to ornament and technology, secondly, descriptions, including data on properties, occurrences, uses, value and trade, and thirdly, an extended treatise on the identification of gemstones, the most thorough of its kind yet to appear. An appendix provides an adequate treatment of pearl and coral. In terms of lasting value, much of the descriptive material, comments on famous deposits or stones,and contemporary data provided by Bauer retains its usefulness even today, but the third part, on determinative gemology has now been so far surpassed that this part seldom is useful except when taken in historical perspective. An attractive feature that does much to keep up the demand for copies of this work in the antiquarian market is the illustrative matter, principally the color plates that were specially prepared for this work and printed by lithography in vivid colors. In some copies, unfortunately, overly liberal use of ink, or perhaps insufficient drying prior to plate insertion, caused tissue guards to adhere to the plates, conmonly with loss of printed matter on such guards. It is therefore not easy to find undamaged copies. Bauer's work won instant acclaim and was soon followed by an English translation, and other editions in German.

471. -----1904, Engl transl

Precious Stones | A Popular Account Of Their Characters, Occurrence | And Applications, With An Introduction To Their | Determination, For Mineralogists | Lapidaries, Jewellers, Etc. | With | An Appendix On Pearls And Coral | By | Dr. Max Bauer | Privy Councillor, Professor In The University Of Marburg | Translated From The German With Additions By | L. J. Spencer, M.A. (Cantab.), F.G.S. | Assistant In The Mineral Department Of The British Museum | With Twenty Plates And Ninety Four Figures In The Text | London | Charles Griffin And Company, Ltd. | 1904 | [All rights reserved]

8°: xv, [1], 627, [1 blank]p; same ill but 17 of the pls are provided with guards while the lettpress on the color pl guards is now in English. Crushed maroon leather spine & corners, outlined in decorative gold rules; gold lett, orns on spine in 6 panels divided by gold rules. Dk brown-red cloth sides; dk maroon marbled endp. 27.2 x 19 cm(10 3/4 x 7 1/2 in). Cut. Teg. LC 4-9587. JSL.

Cont: 1/2tp; pl; tp; transl note; pref; tab cont; pl explan; text fig list; corrigenda; introd; text; append; blank p; index; blank p.

Text revised in places to incorporate new information eg, new localities; chemical composition certain species, recently discovered diamond deposits in British Guiana, and references to some noteworthy specimens in the British Museum (Nat Hist) inserted in appropriate places in the text. Old fig 51 replaced. Spencer's revisions important and acknowledged as such by Bauer in the 2nd edit. Color litho pls now far less adhesive. Concerning plates, I examined a set from this work, apparently specially offprinted, bound up in red leather and maroon cloth, marbled endpapers, like the original binding, with gold lett & publisher's monogram on front cover bearing the words "Selected Plates From Bauer's Precious Stones." Possibly such were by order of L J Spencer and not sold in the trade; I have not been able to find any reference to them elsewhere. The plates exclude 5 & 8 from the run 1-20.

472. -----1909, 2nd Ger edit

Edelsteinkunde | Eine Allgemein Verständliche Darstellung | Der Eigenschaften, Des Vorkommens Und Der Verwendung Der | Edelsteine, Nebst Einer Einleitung Zur Bestimmung Derselben, | Für Mineralogen, Edelsteinliebhaber, Steinschleifer, Juweliere | Von | D$^{R.}$ Max Bauer, | Geheimer Regierungsrat | Professor An Der Universität Marburg. | Zweite, Vollkommen Durchgesehene Und Teilweise Neubearbeitete Auflage. | Mit 21 Tafeln In Farbendruck, Lithographie Und Autotypie, Sowie | 115 Abbildungen Im Text. | [publ monogram] | Leipzig 1909 | Chr. Herm. Tauchnitz

8°: XVI, 766 p; 21 pls(new pl is Taf XIa, betw p 322-3, photo of Cullinan rough); 115 fig(includes 24 maps). In various bindings, two of which here described: 1/4 brown crushed leather, with tan paper simulating crushed parchment over bds, blind rules & gold lett spine; 4 simulated raised bands; gray endp with diaper pattern in greenish gray & yellow; te stained gray-blue; the sections are stapled. Another: 1/3 maroon diced leather, gold double-rule division betw spine & corner leathers; maroon cloth over bds; gold lett, publ monogr on spine, with top & bottom blind-stamped panels in darker hue; pale gray endp; inner red cloth hinges; sections now sewn; marbled edges. In the first version, the pls are distributed throughout the text but in the second, they are hinged with thin cloth to fold inward and gathered together at the end of the text. P size this last 27.5 x 19 cm(10 7/8 x 7 1/2 in). Cut. Also issued in wrap, price M 30; in 1/2 calf M 34. GS 10-437; JSL.

Cont: pl(only in version 1); tp; transl rights; dedic; fwd; pref to 2nd edit; tab cont; pl explanations; text fig list; introd; text; index; pls(2nd version only).

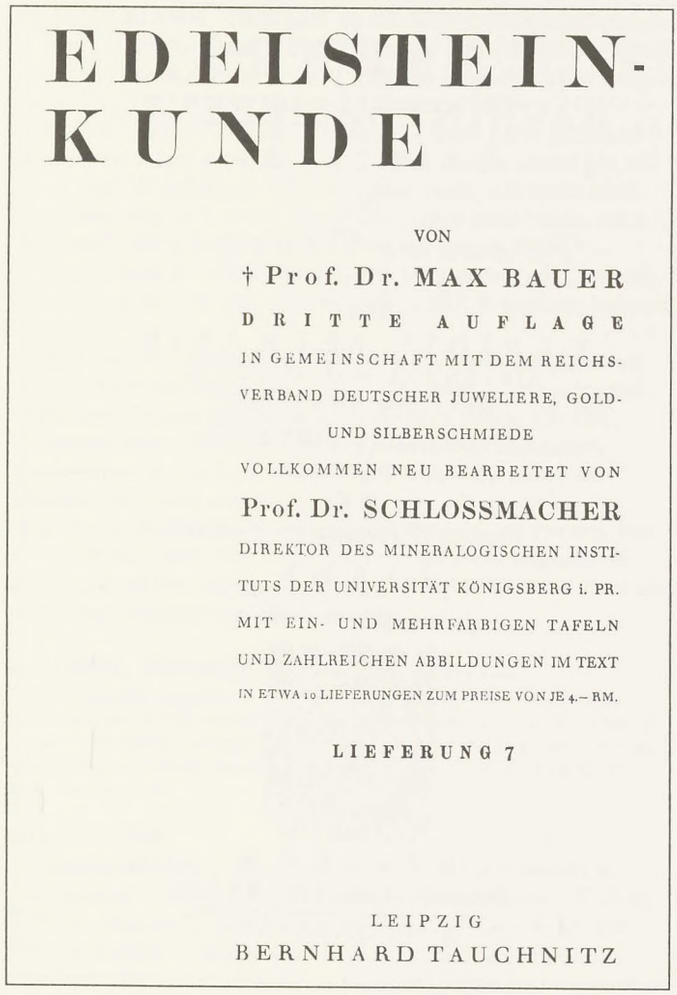
Thoroughly revised; numerous additions & corrections but format & allocation of subject matter same; color pls less sticky but guards now of heavier stock and less translucent.

473. -----1932, 3rd edit, rev by Schlossmacher

Prof. Dr. Max Bauer | Edelsteinkunde | Dritte Auflage, vollkommen neu bearbeitet von | Prof. Dr. Schlossmacher | Direktor des Mineralogisch-Petrographischen Instituts | der Universität Königsberg i.Pr. | [star] | Mit ein- und mehrfarbigen Tafeln und zahlreichen | Abbildungen im Text | 1932 | [rule] | Bernhard Tauchnitz/Leipzig

8°: XIV, [1], [1 blank], 871, [1]p; 68 numbered pls(includes front col pl & a col map, the remainder b&w) + 8 col pls labeled A to H; 465 fig(includes 18 maps). Some photo pls printed on one side of leaf only; all col pls with gds as before, the additional col pl is of synthetic gemstones. Pls tipped-in. Dk blue cloth, gold lett on cover & spine, the latter with two broad ruled gold bands, tp & bottom. 27.9 x 18.7 cm (11 x 7 3/8 in). Cut. Not enough cloth left at hinges which tend to crack inside. RM 58. LC 33-3072. JSL.

According to BritMus(NH) Libr Cat, this work issued (originally?) in parts: 1-6, 1928-39, p 1-384, 25 + 5 pls, 247 fig, price Mk 4 per part; parts 7-10, 1930-32, p 485-640, 24 + 3 pls, 109 fig, Mk 4 per part; parts 11-13, 1932, p i-xiv, 641-871, 19 pls, fig, Mk 4 per part. The bound vol cost Mk 55. All parts in pale tan wraps, red lett covers, uncut, 29.5x 19.9


EDELSTEIN-
KUNDE

VON

† Prof. Dr. MAX BAUER

DRITTE AUFLAGE

IN GEMEINSCHAFT MIT DEM REICHS-
VERBAND DEUTSCHER JUWELIERE, GOLD-
UND SILBERSCHMIEDE

VOLLKOMMEN NEU BEARBEITET VON

Prof. Dr. SCHLOSSMACHER

DIREKTOR DES MINERALOGISCHEN INSTI-
TUTS DER UNIVERSITÄT KÖNIGSBERG i. PR.

MIT EIN- UND MEHRFARBIGEN TAFELN
UND ZAHLREICHEN ABBILDUNGEN IM TEXT

IN ETWA 10 LIEFERUNGEN ZUM PREISE VON JE 4.– RM.

LIEFERUNG 7

LEIPZIG
BERNHARD TAUCHNITZ

473. Typical "Lieferung" or section, sold separately, of Bauer's great work on gemstones as reworked by Professor Schlossmacher

cm(11 5/8 x 7 3/4 in). In the US, each part cost $1.00 and were sold by E Westermann, Inc, of New York City. A set of these "Lieferungen" is in the Kunz Coll, USGS Library, Reston, VA. Rev *Zs f Krist*, 71, 5/6, 1929, p 539(but only for the first 3 parts).

Cont: col pl; tp; publ data; fwd to first edit; fwd to 3rd edit; tab cont; pl explan; text tp; blank p; text; index; print data.

So completely revised that it bears little resemblance to its predecessor save for general arrangement of matter, size, and eight of the color plates, the latter somewhat blurred. The former monochrome plates of famous gems and cutting styles are omitted. First part, generalities, is now greatly expanded with much new information on gemological instruments and methods. The second, descriptive part is thoroughly revised to include new information on older sources as well as data on new gemstones, new localities, and additional up-to-date remarks on the commerce in gems(production tables). This part now incorporates pearls, coral, and other organic materials. The former third part on identification has now been moved up to part one, and in lieu thereof, a new third part deals with lapidary work, extraordinarliy complete and with valuable information on heat treatment and dyeing of gem materials. There are short sections on doublets, glass imitations, carat weight, and a series of gem identification tables which close the text.

On the whole, this edition is far more useful than its predecessors, and this, coupled with what appears now to have been an exceptionally small printing, resulted in copies soon disappearing from the market; it is now far scarcer than any of the others. For remarks on Karl Schlossmacher(1887- 1980), see under his name. Rev E H Kraus, *Amer Mineral*, 18, 2, 1933, p 80; R M Shipley, *G & G*, 1, 2, 1934, p 57-8.

474. -----1968, Engl transl of 1904 reprinted

Precious Stones | ... | Translated from the Gennan with Additions by | L.J. Spencer, M.A. (Cantab.), F.G.S. | With a New Foreword and Addenda by | Dr. Edward Olsen | Curator of Mineralogy | at the Field Museum of Natural History | In Two Volumes | Volume I [-II] | Dover Publications, Inc. | New York [1968]

Vol I: 16°: [2 blank], xxi, [1 blank], 260, [15], [1 blank]p; pls II-XI (integral, but not incl in pag); fig 1-52. Stiff, glossy wrap, col ill on cover; white lett spine; back cover resume; other publ books inside covers. 23.6 x 15.5 cm(9 1/4 x 6 1/8 in). Cut. $3.00. Sold separately. JSL.

Cont: blank f; 1/2tp; tp; publ data; fwd present edit; addenda; transl note; pref; tab cont(for both vol); fig list(for both vol); introd; text; book cat of publ; blank p.

Vol II: xi (first 2 p blank), [1 blank]p + p 261-627 + [1 blank]p; pls I, XII-XVI, & XX are in col on 4 glossy f bound betw p 376-77; also pls XVII, XIX which are integral but these and the other pls excluded from pag. Fig 53-94. Same type wrap. same price. LC 68-19167; JSL.

Cont: blank f; tp; publ data; tab cont;pls explan; fig list; text; append; index for both vol.

Aside from the reset front matter, rearrangement of certain prelims and color pls, duplicates the 1904 edit. Olsen's fwd briefly summarizes the printing history and provides an addenda of corrections and supplementary notes to up-date parts of the text. Issued in large numbers. Rev *G & G*, 13, 1, 1969, p 35-6; *J Gemm* 12, 3, 1970, p 91-2. Also issued in London by Charles Griffin & Company Ltd, 2 vol 50s. Vol I: ISBN 486-21910-0(U5A), 85264 186 9(UK); Vol II: 486-21911-9(USA), 85264 187 7(UK).

475. -----1969, facsimile of 1904 edit

Precious Stones | ... | Assistant In The Mineral Department Of The British Museum | And With | New Appendices On Synthetic Gems And The Cultured Pearl | with 20 plates and 95 figures | Charles E. Tuttle Company: Publishers | Rutland, Vermont & Tokyo, Japan [1969] [First two words in green & black]

8°: xviii, 647, [7 blank]p; 8 full col pls(cut-outs, mounted on thick greenish-gray paper, tip-ins; Pl I faces title); 7 b&w sketch & photo pls; 5 green monochrome & black pls, tip ins + 95 fig. Bright red, unfinished silk; rect stamped recess on front cover & spine in which inlaid black cloth panels bearing gold lett & rules. Greenish-gray endp. 26.8 x 19 cm(10 3/8 x 7 1/2 in). Cut. Col dj, resume, other publ books. In corrugated cardbd slipcase, with foredge protector piece. $17.50. LC 69-12082. JSL.

Cont: 1/2tp; pl; tp; publ data; tab cont; corrigenda; publ fwd; transl note; pref; pl explan; fig list; introd; text; blank p; append tp; blank p; append; index; 7 blank p.

Full-size facsimile of the English 1904 edit with minor changes in the front matter and a new titlepage. Color plates somewhat blurred, no guards supplied. New appendices are "Synthetic Gems" by C Robert Castor, excerpted from *Kirk-Othmer Encyclopedia of Chemical Technology*, John Wiley & Sons, p 619-27, and "The Cultured Pearl," adapted from Norine C Reece *The Cultured Pearl*, which see, p 629-36. A handsome production, high quality materials, well constructed. Same, sold by Charles Griffin & Company, London, who place a contact-cement printed label to cover the regular publisher on the foot of the titlepage, with ISBN 0 85264 185 0; elsewhere "third printing, 1970." Other Griffin labels applied on dj foot and cardbd slipcase. £ 8-10s, 0 £ 8.50.

476. BAUGNIET, HENRI

Description | Historique Et Scientifique | De La | Collection De Pierres Précieuses, | Camées, Etc. | De M. Henri Baugniet. | Exposée Au Temple Des Augustins | Sous Les Auspices De La Société Royale Philanthropique | De Bruxelles. | Prix du livret: 1 franc. | Au Profit Des Pauvres. | Bruxelles, | Société Des Beaux-Arts. - Gérant, A. De Wasme, Place Du Grand Salon, N° 11. | [rule] 1847.

8°: 86 p; tan wrap, title on cover; 18 x 12.5 cm(7 1/8 x 5 in). Uncut. USGS Kunz Coll; GS 34-484. Cont: tp; signature line for author; pref; text; tab cont.

Describes specimens in the collection of Baugniet, alphabetically by gemstone, from agate to zircon, with each giving a description of the stone and the number in the exhibit.

BAUHIN, KASPAR or CASPAR, GASPARD(1560-1624)

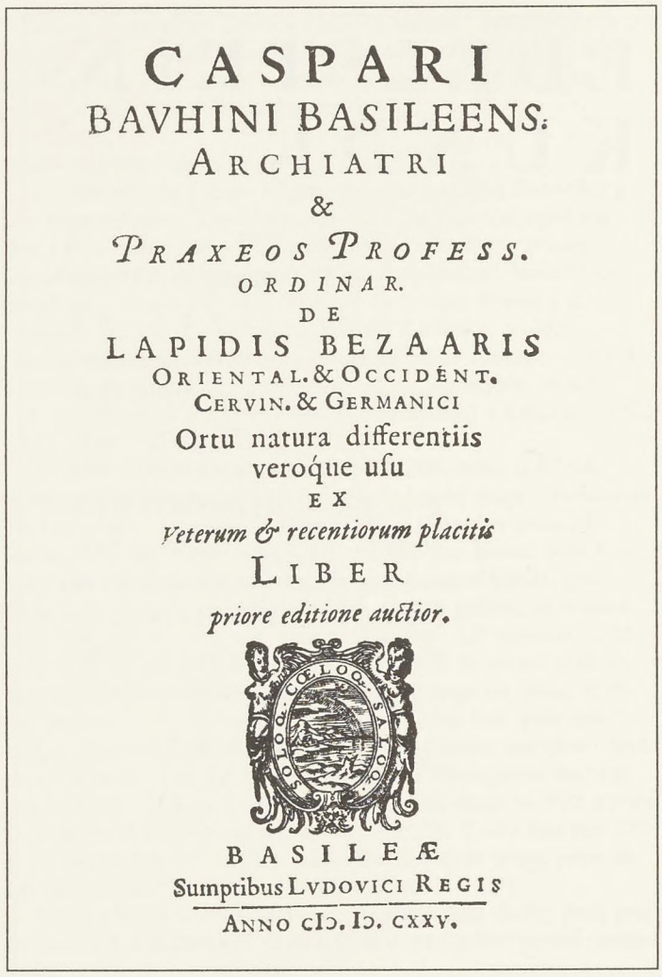
B Basel; attend U Basel; stud medicine & anatomy Padua, also botany, subjects which remained his principal interests throughout his life; MD Basel 1580; prof med U Basel; author many medical, botanical treatises. *Biogr Univ*, 3, p 559-66. *World Who's Who Sci*, p 130.

477. -----1613 Caspar Bavhini Basil. D. Eivsdemq$_3$ Academ. Anatom. Et Botanic. Professor Ordin. De Lapidibis Bezaar Orient. Et Occident. Cervini Hem Et Germanici Ortv, Natvra, Differentijs, veróque vsu Ex Veterum & Recentiorom placitis Liber hactenus non editus. Basiliae Apud Conr. Waldkirch. Anno M DC XIII. [Basel, 1613]

8°: [2], 288, [8]p;)(⁸,):(⁴, A-S⁸, T⁴. Engrav pl showing bezoar upon a double-leaf betw p 68-9 & not included in pag(pl verso, explan recto); another pl betw p 88-9, also betw p 268-9; woodcut ch orns, inits. 15.5 x 9.75 cm(6 1/4 x 3 7/8 in). Cropped. De Golyer Coll, U Okla; Agassiz, I, 212.

Cont: tp; ackn; dedic ltr; biblio; tab cont; lauds; 46 chs; append; index; errata.

One of the earliest treatises devoted to the bezoar of mystic/medicinal repute and similar animal calculi. Numerous chapters provide detailed descriptions and discussions of the various types as well as imitations and substitutes, the latter principally taken from similarly-shaped concretions or fossils of the mineral kingdom. Replete with historical notes, reflecting the considerable importance attached to bezoars as antidotes to poisons or as ingredients in various medicinal concoctions. For a discussion of bezoars and other writings on the subject, see Thorndike, *History of Magic*, 7, p 242-7; 8, p 61-3; Ferguson I, p 83; DSB 1, p 522-5.


CASPARI
BAVHINI BASILEENS.
ARCHIATRI
&
PRAXEOS PROFESS.
ORDINAR.
DE
LAPIDIS BEZAARIS
ORIENTAL. & OCCIDENT.
CERVIN. & GERMANICI
Ortu natura differentiis
veroque usu
EX
Veterum & recentiorum placitis
LIBER
priore editione auctior.
BASILEÆ
Sumptibus LVDOVICI REGIS
ANNO CIↃ. IↃ. CXXV.

478. A complete treatise on animal concretions or bezoars, once valued as highly as precious stones

478. -----1625, another edit

Caspari | Bavhini Basileens. | Archiatri | & | Praxeos Profess. | Ordinar. | De | Lapidis Bezaaris | Oriental. & Occident. | Cervin. & Germanici | Ortu natura differentiis | veróque usu | Ex | Veterum & recentiorum placitis | Liber | priore editione auctior. | [woodcut logo] | Basiliae | Sumptibus Lvdovici Regis | [rule] | Anno CIↃ. IↃ. CXXV. [1625]

8°: [24], 294, [9], [1 blank]p;)(⁸),)()(⁴, A-T⁸; 5 text woodcuts, several multiple; ch orns. 15.9 x 9.2 cm(6 1/4 x 3 5/8 in). Cropped. USGS Kunz Coll, GS 33-279; JSL; Ward & Carozzi, 144. Agassiz, I, 212; Böhm IV, 2, 340.

Cont: tp; dedic; ltr; authors cited; tab cont; lauds; pref; text; append; antidotes; the Pavonian stone; index; errata; blank p.

Now with 51 chapters and additional sections added to text.

479. BAULIN, N Ya; DOLOV, V I: UVAROV, V A, et al

Sokrovishcha Almaznogo Fonda SSSR. Leningrad(?): Izobratelnoe Iskusstvo, 1975, 168 p. Not seen. The USSR Diamond Treasure.

480. BAUMANN, GUSTAV & BRIGHT, ELFRIEDA

The | Lost Republic | The Biography of a | Land-Surveyor | by | Gustav Baumann | and | Elfrieda Bright | Faber And Faber Ltd | 24 Russell Square | London [1940]

8°: 269 (first 2 p blank), [3 blank]p; front portr photo of B on pale tan matte paper tip-in + 7 other similar photo pls, all tip-in, and all collotypes. Greenish-blue cloth, red spine label with blue rules & lett; col dj, resume, other publ books. 22 x 13.7 cm(8 5/8 x 5 3/8 in). Cut. Pale tan paper. JSL.

Cont: blank f; 1/2tp; pl; tp; publ data; dedic; ackn; introd; tab cont; ill list; 22 chs; append; refs(p 257, 8 entries); index; 3 blank p.

The first two chapters, by Bright, Baumann's daughter, set the scene for the remainder of the text which is reconstructed from memoirs and notes left at her father's death. Ch XIV, "Diamond Mine Drama," p 140- 52, describes Baumann's participation in a survey of a potential diamond mine, the litigation involved, and the final outcome. There are other remarks on diamond mining scattered throughout the text but primarily this work is of value for its eyewitness accounts of early years of the Orange Free State. There has been at least one reprinting: thinner bds, pale blue cloth.

BAUMER, JOHANN WILHELM(1719-1788)

Ger naturalist, physician; b Rehweiler; studied at Halle & Jena; pastor in Krautheim, but in 1742 turned to the study of med at Erfurt; prof med 1748, of physics 1754 Erfurt; prof med Giessen 1765 & regional physician; wrote treatises in mineralogy, medicine, chemistry; d Giessen. Ferguson I, p 84; Pogg I, 116-7; *Biogr Univ* 3, p 572.

481. -----1763

Naturgeschichte | des | Mineralreichs | mit besonderer Anwendung | auf Thüringen | herausgegeben | von | D. Joh. Wilhelm Baumer | Churfürstl. Maynsis. Rath, der Acad. der Wissenschaften, | Medic. und Philos. Facultät zu Erfurt Beysitzer, der Ana= | tomie, ausübenden Arzneywissenschaften und Naturlehre | Professor.| [engrav vignette, Athena(?) pointing to a beehive] | Mit Kupfern. | [floral rule] | Gotha | verlegts Joh. Christian Dieterich, 1763.

8°: [8], 520, [14] p; a^4, A-Kk^8 Ll^3 47 fig on 10 engrav pls. 17.5 x 10.4 cm(6 3/4 x 4 1/8 in). Cropped. BM(NH) lacking ill; San Diego Nat Histy Soc; Agassiz I, 213 Böhmer, IV, 1, 64.

Cont: tp; dedic; pref; text; index; pls.

General remarks on amber, copal, jet, p 28-34; marble, p 185-8; nephrite, p 209-10; "glass-like" stones include gemstones, p 221-59. Many text references to literature. While none of the information is remarkable, the organisation adopted by Baumer in an attempt to present his material in some systematic order is noteworthy. Thus he treats the materials of the earth as follows: underground fire agencies, including combustible and air, water agencies, salts, earths, stones, accidental forms of stones and petrifications, metals and ores, and mountains or large rock masses.

482. -----1764, supplement

Naturgeschichte | des | Mineralreichs | ...[7 lines]... | [orn] | Zweytes Buch. | [double rule] | Mit Kupfern. | [orn rule] | Gotha | Verlegts Joh. Christian Dieterich, 1764.

8°: [1], [1 blank], 318, [8]p; a-u^8, x^4; 16 fig on 9 engrav pls.

Cont: tp; dedic; pref; text; index; pls. [should be 10 pls?]

Supplementary material presented in the same order, ie, amber, p 25-7; jet, p 27-8; marble, p 117-20, and gemstones, etc, p 142-62. *Biogr Univ*, ibid, mentions *Historia naturalis regni mineralogici*, Frankfurt, 1780, 8°, 3 pls which may be another supplement or condensation; not seen.

483. -----1771

Historia Natvralis | Lapidvm | Pretiosorvm | Omnivm, | Nec Non | Terrarvm Et Lapidvm | Hactenvs In Vsvm Medicvm | Vocatorvm, | Additis Observationibvs | Mineralogiam Generatim | Illvstrantibvs, | In Vsvm Avditorvm Svorvm | Descripta | A | D. Ioan. Wilh. Bavmer, | Serenissimi Hassiae Landgravii A | Consiliis Rervm Metall. In Acad. | Lvdoviciana Med. Prof. Primar. Pro- | Todynastiae Giessenae, Praefectvra- | Rvm Koenigsbergensis Et Hütenber- | Gensis Ac Civitatis Allendorfensis | Physico, Et Nonvllarvm Acad. | Ac Societt. Scientt. | Sodali. | [rule] | Francofvrti, | Apvd Ioan. Georg. Fleischer. | MDCCLXXI. [1771]

8°: [8], 159, [1 blank]p; pi^4, A-I^8, K-L^4(D4 missigned D3). Binder's bds, marbled paper over; title, rules, florets on spine. 18.2 x 11.8 cm (7 1/8 x 4 5/8 in). Uncut. USGS Kunz Coll; GS 33-239; JSL; Agassiz, I, 213.

Cont: tp; dedic; pref; text; index; blank p.

In this rare and important work, Baumer, as a physician, discusses the uses of gemstones and other mineral substances in medicine, making it plain that many gemstones simply cannot dissolve in body fluids hence cannot be medically useful. On the other hand, with caution, he notes that some mineral substances, are attacked by acids or are soluble in water, notably some "earths," which may therefore confer some benefits. He deplores superstitions that assign false values to pharmaceutical preparations utilizing minerals.

The text is in two parts: 1. classification of gemstones as true precious stones, "gemmas veras," semi-precious, "semigemmas," and spurious gemstones, "pseudogemmas," with discussions of the differences, gemstone properties, origin, and other matters, and with descriptions of a considerable number of species and varieties according to the classes noted above. Unfortunately, his mineralogical knowledge is not as complete as it should be inasmuch as a fossil shark's tooth, chelidonius, is classed as a true gemstone while malachite is classed as spurious. Part 2 considers earths, ochres, fossils, gemstones, and ore minerals that have been used or are still being used in contemporary medicines, noting curious lore attached to many, ancient beliefs regarding efficacy for certain complaints, and comments on what the materials are, how prepared, and how administered. Gemstones are considered in Ch 7, p 90-106, which is entitled "De Lapidibvs Vitreis," in allusion to the glassy character of most of the species and varieties. An important feature of this treatise is Baumer's unequivocal statement that color in gemstones is attributable to incorporation of metallic constituents; apparently this view was first presented in his earlier 1769 treatise on mineralogy noted above, p 64, according to K F Chudoba, writing about color in gemstones in the *19th Sonderheft, Der Aufschluss*, 1970, p 37. Chudoba gives this statement precedence among modern views on causes of color in gemstones.

484. -----1774, Ger transl

D. Johann Wilhelm Baumers | Sr. Durchlaut des Landgrafen von Hessen | Bergraths &c. | Naturgeschichte | aller |

Edelsteine; | wie auch | der | Erden und Steine, | so bisher zur Arzney sind gebraucht worden; | mit | beygefügten Ammerkungen | die die Mineralogie überhaupt erläutern, | zum Gebrauche seiner Zuhörer | beschrieben. | [double rule] | Aus dem Lateinischen übersetzt | von | Karl Freyherrn und Reichsrittern von Medinger. | [double orn rule] | Wien, zu finden in dem Kraussischen Buchladen, | nächst der Kaiserl. Konigl. Burg., [orn rule] | 1774.

8°: 149, [10], [1 blank]p; A-K^8; many ch orns, inits, etc. 19 x 11.6 cm(7 1/2 x 4 5/8 in). Much cropped. Ward & Carozzi, 145; JSL; Agassiz I, 213.

Cont: tp; transl pref; author pref; text; index; advert; blank p.

Excellent translation which improves upon the original by better organization of material within certain paragraphs, correction of obvious errors, and insertion of numerous amplifying footnotes. Medical terms in Latin were retained where Medinger felt that their rendition into German would cause confusion, while at the same time, mineral names, given in German, but coupled to their Latin originals, help make identities more certain. Rare.

BAUMGÄRTEL, R, see VOLLSTADT, H

485. BAUMHAUER, EDUARD HEINRICH VON(1820-)
Ueber den Diamanten. *Ann Phys u Chemie*, Leipzig, 1, 1877, p 462-78; not seen, Pogg I.

486. BAUSCH, JOHANN LORENZ(1605-1665) De lapide aetite schediasma, ad modum et mentem Academiae naturae curiosorum congestum. Lipsiae, Impensis V.J. Trescheri, Typis J.E. Hahnii, 1665, 79 p, 5 fold pls. Issued as part 2 of his *Schediasmata bina curiosa de lapide haematite et aetite*. Lipsiae, 1665. Not seen, from Ward & Carozzi, 147. See Agassiz, I, 215 for similar work.

487. BAVARIA. MUNICH RESIDENCE TREASURY
Vollständige | Beschreibung | der weltberühmten | Churfürstlich=Baierschen | Schatzkammer | und derselben Kostbarkeiten | in der Residenzstadt München | [woodcut panel, baroque, Apollo holding caduceus] | [orn rule] | Augsburg, | bey Albert Friedrich Bartholomäi. | 1778.

Not seen; from facsimile of tp, p 49, Steingräber *Royal Treasures*.

488. BAWDEN, SHARMAN N
Australian | Gemstones | Sharman N Bawden [Gladesville, New South Wales: Golden Press Pty Ltd, 1972]

Cementb: 109, [3]p; 50 col photos, each(save one) accompanied by col outline sketch of Australia with black dots showing sites + 7 col photos of scenes. Stiff, plastic-coated wrap, col photos both covers; title white against blue. 21 x 13.5 cm(8 1/4 x 5 3/8 in). Cut. Aus $2.00. ISBN 08555 82 57x. JSL.

Cont: 1/2tp; other titles in series; tp; publ data; tab cont; introd; text; [3] p marked "notes."

Cheaply-made, already pulling loose from wrapper, and with very poor quality color photos. Stresses curious lore, provides no property data, and largely fails to give any localities except as the black dots mentioned above. Includes a number of Australian "gemstones" of doubtful validity as schorl, and spinel, the latter not known to occur in sizes large enough to cut. Adds nothing worthwhile to the literature.

489. BAXTER, WILLIAM T & DAKE, HENRY CARL(1896-1969)
Jewelry | Gem Cutting, and | Metalcraft | [rule] | by | William T. Baxter | Instructor, Art Metal and Jewelry | Woodrow Wilson High School | Washington, D.C. | With a section on Identification | of Gem Stones | By Henry C. Dake | Editor, The Mineralogist | [orn rule] | Whittlesey House | McGraw-Hill Book Company, Inc. | New York · London [1938]

8°: [2 blank], xii, 224, [2 blank]p; front photo, 127 photos & drawings. Black cloth, silver spine title. Silver dj, Art Deco style, jewelry photo on front; other publ books, resume, vita. 20.4 x 13.9 cm (8 x 5 1/2 in). Cut. $2.50. LC 38-27406. JSL.

Cont: blank f, 1/2tp; front; tp; publ data; pref; tab cont; fwd; text in 4 parts; supplier list; index; blank f.

For beginners: first two parts on metalcraft & jewelry projects; the third part, p 131-78 on how to make cabochons with a few remarks on facet work. The last part, by Dake, p 179-212, describes useful gem identification tests, instrumentation, synthetic and altered gems, agate coloration, and qualities of gemstones that enhance value. Simply written, popular, and widely distributed.

490. -----1942, rev
Jewelry | Gem Cutting, and | Metalcraft | Revised Edition | [orn rule] | By | William T. Baxter, M.A. | Instructor, Art Metal and Jewelry, Woodrow Wilson High School, | Washington, D.C.; Coauthor of "Woodworking | Projects and Upholstery" | With a section on Identification of Gem Stones | By Henry C. Dake | Editor, The Mineralogist | Second Edition | [orn rule] | Whittlesey House | McGraw-Hill Book Company, Inc. | New York. London [1942]

8°: [2 blank], xii, 287, [3 blank]p; front photo; 170 fig. Black cloth as before; pale green & gray dj, cover title, advert, resume, vita. 19.8 x 13.4 cm(7 3/4 x 5 1/4 in). Cut. $2.75. JSL. At least 12th print.

Cont: blank f; 1/2tp; front; publ data; pref to both edit; tab cont; fwd; text; suppliers; list of magazines devoted to gem cutting & mineralogy; biblio(p 280, 13 entries); index; 3 blank p.

The second part on jewelry making is drastically revised with new material, old text & illustrations rearranged, and new illustrations added. The third part on lapidary work is also revised with new material on types of lapidary work added; last part same.

491. -----1950, less contrib by Dake
Jewelry | Gem Cutting | And Metalcraft | By William T. Baxter, M.A. | Instructor, Jewelry And Gem Cutting | Woodrow Wilson High School, Washington, D.C. | Third Edition, Revised And Enlarged | Whittlesey House | McGraw-Hill Book Company, Inc. | New York London Toronto [1950]

8°: xiv, 334, [4 blank]p; front photo; 231 fig. Very dk green cloth, silver spine title. Dj. 20.2 x 14 cm(8 x 5 1/2 in). Cut. $7.59. JSL. Into 17th printing.

Cont: 1/2tp; front; tp; publ data; pref; ackn; tab cont; fwd; introd(by Lelande Quick); text; suppliers; magazines(p 325, 4 entries); biblio(p 327, 17 entries); index; 2 blank f.

Much new material with gem cutting section completely rewritten, brought up to date, and with chapter on faceting added. However, this third part on lapidary work still remains a generalized treatment rather than a detailed instructional manual. The last part on gem identification is also rewritten completely but along the lines previously established by Dake's contribution, but his name no longer appears.

492. BAYAN, OLGA [Prospector of mines: stories from the life of Academician A.E. Fersman.] Moscow & Leningrad, State Publishing House, Children's Literature, Ministry of Education, 1951, 203 p, 1 pl, 103 text fig. Price 5r 5k. In Russian; not seen. Several of the anecdotes deal with Fersman's visits and explorations of famous gem deposits.

493. BAYARD, ÉMILE

L'Art | de Reconnaître | les Bijoux Anciens | Pierres Précieuses [orn] Métal Précieux | Ouvrage illustré de 115 planches et gravures | d'après la Collection Georges Chapsal | [photo vignette] | Paris | Ernest Gründ | Libraire-Éditeur | 9, Rue Mazarine, Paris (VIe) | [rule] | 1924

At head of title: Guides Pratiques De L'Amateur Et Du Collectionneur D'Art | [rule] | Emile-Bayard | Inspecteur De L'Enseignement Des Beaux-Arts Et Des Musées | [rule]"

8°: 313p(first 2 p blank) + [1 blank], [1], [1 blank], [1], [3 blank]p; 115 photos(78 are "planches" but actually text fig), 22 ch orns; 15 text fig. Very pale tan heavy paper wrap, title in brown within brown ruled frames on cover. 18.8 x 12 cm(7 3/8 x 4 3/4 in). Uncut. JSL.

Cont: blank f; 1/2tp; other publs; tp; dedic; 10 ch; ill list & captions; tab cont; print data; 3 blank p.

On antique jewelry, based on the extensive and important collection of Georges Chapsal. Treats history of jewelry from antiquity to the Middle Ages, precious stones and metals, techniques of fabrication, and other topics. Gemstones are treated in Ch 5, p 129-59, in which principal and some lesser species are briefly described and their uses in jewelry discussed. Most space is devoted to diamond and pearl. Some gemological terms in glossary, p 245-63.

BAYLEY, WILLIAM SHIRLEY(1861-1943)

B Baltimore; mbr fac U Illinois from 1907; prof 1913-31; author *Descriptive Mineralogy*, 1916.

494. -----1930

Guide To The Study Of | Non-Metallic | Mineral Products | (Except Building Stones) | By | W.S. Bayley | Professor Of Geology, | University of Illinois | [publ logo] | New York | Henry Holt And Company [1930]

8°: xvip + p 3-530[sic]; 127 fig; 95 tabs; 6 outline maps ahead of index. Dk green cloth, blind border & publ logo on cover; gold lett & rules on spine. Pale tan endp. 21.5 x 14 cm(8 1/2 x 5 1/2 in). Cut. JSL.

Cont: tp; publ data; pref; tab cont; text; blank p; maps; index.

On economically important non-metal ore mineral products including gemstones. Provides general remarks on classes and formation of deposits, then devotes a chapter to underground water, after which appear chapters on combustibles, salines, etc. Gemstones are treated in Ch 10, p 315-36: brief descriptions, deposits, origin, production data, etc, for diamond, olivine, tourmaline, beryl, and others, but includes such insignificant minerals as brucite, lazulite and beryllonite. Sapphire & ruby, as gemstones, incidentally treated in the abrasives chapter, p 340-41; meerschaum noted on p 469. Footnote references. Illustrations include photos, maps, cross-sections but the outline maps of continents appear to serve no useful purpose. A work of uneven quality. LC 30-11824.

495. BAZHOV, PAVEL PETROVICH(1879-) The malachite casket. The Russian original of this collection of 40 folk and fairy tales, based upon the lives and experiences of Ural Mountains miners, was not seen nor its place and date of publication established. See below for English translations.

496. -----1945

P.P. Bazhov | Malakhitovaya Shkatulka | [vignette] | Uralskie Skazy | [orn rule] | Izdatelstvo | Literatury Na Inostrannykh Yazykakh | Moskva [nd; at end of text "1945] "English title facing: P. Bazhov | Malachite Casket | Tales From the Urals | Foreign Languages | Publishing House | Moscow

"Library Of Selected Soviet Literature" and p [6]: "Translated from the Russian by Eve Manning."

Both titles ornamented & lettered in green & black; Russ title vignette a young girl, the Engl title vignette a young man.

8°: 249, [3]p; sepia portr pl front tip-in; 6 tip-in col pls on heavy white paper; 20 ch headpcs. Pale gray cloth, ornate green, black, gold orn & lett on cover & spine. Rounded corners. Col dj. 25.2 x 19.1 cm(10 x 7 1/2 in). Cut. JSL.

Cont: series tp; front; tps; transl note; tab cont; text tp; text; print note; Russian short title.

Twenty stories in the spirit of fairy-tales, based on the daily lives of the peasant craftsmen, miners, lapidaries of the Ural Mountains of Russia in pre-Communist days. While all are fiction there is much of interest to the gemologist because the author writes about his youthful experiences among such craftsmen and frequently mentions gemstones and the objects cut from them for which the Uralian region was so famous. On the whole, the stories are delightful but marred in places by excessive harping on the themes of social injustice and exploitation of serfs so obviously part of Communist dogma. Each story is dated with the year of completion, from 1936 to 1945. The color plates, after paintings, are splendid as are the headpiece pen-and-ink drawings, each different.

497. ------1946(?)

The Malachite Casket | Tales From The Urals | By | Pavel Bashov | Translated by | Alan Moray Williams | Hutchinson & Co. (Publishers), Ltd. | London: New York: Melbourne [nd; post 1945?]

16°: 192 p; pale blue cloth, gold publ name on cover; gold spine title. 18.1 x 12.1 cm(7 1/8 x 4 3/4 in). Cut. JSL.

Cont: 1/2tp; tp; tab cont; fwd; text.

Twenty stories, twelve of which are the same as those in the Manning translation above.

498. BEARD, CHARLES R

Lucks And Talismans | A Chapter Of Popular Superstition | By | Charles R. Beard | "... Christianos fidem in verbis, Judaeos in lapidibus | pretiosis, et Paganos in herbis ponere." | Meibom: Scriptores, vol, i, 186 | London | Sampson Low, Marston &

Co. Ltd. [nd, 1934?]

8°: xix, 258 p; black cloth, gold lett spine. 22.1 x 14.2 cm(8 3/4 x 5 1/2 in). Cut. JSL.

Cont: 1/2tp; other author bk; tp; publ data; dedic; fwd; introd; tab cont; text; append; biblio(p 253-58, 157 entries).

Scholarly studies in curious lore, and a standard reference. For the gemologist: Ch 8, p 115-29 on gems & jewels, Ch 14, p 204-13, kings and crowns. Beard briefly examines ancient beliefs in magical properties of gemstones, cites the history of the Koh-i-Noor and Matara diamonds as examples, but devotes most space to the discussion of certain "lucky" gemstones and the crown jewels of Scotland.

Heinrich Meibom(1555-1625), Ger historian, philologist.

BEARD, R E, see WATSON, T L & BEARD, R E

499. BEAUCHAMP, ALPHONSE DE Historie du Brézil depuis sa découverte en 1500, jusqu'en 1810. 3 vols. Paris, 1815. Mines d'or et de diamantes, III, livres 43 et 44, 422-76. Not seen; from J C Branner, Bibliography of Brazil, *Bull Geol Soc Amer*, 20, 1909, p 1-132(p 13).

BEAUGENDRE, A, see MARBOD, 1708, 1854.

500. BEAUMONT, HENRY HAMMOND DAWSON(1867-) Report on a journey to the diamond fields of Minas Geraes by Mr. H.D. Beaumont, Second Secretary to Her Majesty's Legation at Rio De Janeiro. Presented to both Houses of Parliament... February, 1899, London, 1899. At head of title: "No 494 *Miscellaneous Series[p 3-30], Diplomatic And Consular Reports*, Brazil." BM(NH) Min Libr has an edge-sewn, pale blue wrap copy, cover title, 30 p.

Much on the diamond mines, type deposits, companies engaged in mining, details of the journey to and from the mines, historical notes, the Portuguese administration, large diamonds, disposition of stones, and genetic theories. There are further noted on gold and other forms of mineral wealth in Minas Gerais. Invaluable eyewitness account.

BEAZLEY, JOHN DAVIDSON(1885-)

B Glasgow; MA Oxford U 1910; LLD U Glasgow 1953; other degrees; prof class archeol Oxford 1925-56; knighted 1949; specialty ancient vases.

501. -----1920

The | Lewes House Collection | Of Ancient Gems | By | J.D. Beazley | Student Of Christ Church | Oxford | At The Clarendon Press | 1920

4°: xii, 124 p; 12 bound-in glossy photo pls; 6 photos on 2 tip-in glossy f. Tan cloth spine with black lett; pale gray paper sides, white title label on cover. 28.2 x 19 cm(10 1/4 x 7 1/2 in). Uncut. JSL.

Cont: 1/2tp; publ data; tp; dedic; pref; tab cont; abbrev; text; suppl; addenda; index; pls descriptions; pls.

The collection belonged to Mr E P Warren who requested Beazley to prepare the catalog. The text deals with intaglios of the Cretan and Mycaenean periods into the Renaissance, also with cameos, but few of the latter are in the collection. Fully annotated descriptions but lacking dimensions. A short supplement on intaglios and the addenda refer to examples of gems in other collections which are illustrated by photos of impressions on the first two plates, A & B. Plates 1-10 depict impressions of the Lewes House gems and like the previous two, are of good quality. Text figures on plates show a head-dress and its method of wear to demonstrate that it could of the kind depicted on certain ancient gems. On high quality paper. Scarce. See also P & H Zazoff, *Gemmensammler*, 1983, p 237, 240.

502. BECCARI, JACOPO BARTOLOMEO(1682-1766) De adamante aliisque rebus in phosphorium numerum referendis. *Commentarii de Bononiensis Scientiarum et Artium Instituto Atque Academia*, Bononiae[Bologna], 2, 1, 1745, p 274-303. Not seen. Phosphorescence of diamond?

503. BECHT, KARL

Beiträge zur Kenntnis der | Magnesia-Turmaline. | Mit 8 Textfiguren. | [orn rule] | Inaugural-Dissertation | zur | Erlangung der Doktorwürde | ... [4 lines]. .. | Ruprecht-Karls-Universität in Heidelberg | vorgelegt von | Karl Becht | aus Schweighofen. | [rule] | Heidelberg. | Buch- und Kunstdruckerei Rössler & Herbert | 1913.

Edgestapled: 75 p, 8 fig, 23 tabs(1 fold). Green print wrap, title on cover. 22.4 x 14.5 cm(8 7/8 x 5 3/4 in). Cut. GS 14-69; JSL.

Crystallography, properties, of magnesia tourmalines from Ceylon and other places. Gives values of refractive index, double refraction, specific gravity.

504. BECK, CURT W Analysis and provenience of Minoan and Mycenean amber. I. *Greek, Roman and Byzantine Studies*, Durham, North Carolina, 7, 3, 1966, p 191-211. II. Tiryns, ibid, 9, 1, 1968, p 5-19. Not seen; from G R von Bock, 1981, p 172.

BECK, C W, see LANGENHEIM, J H, 1965, 1968

505. BECK, C W; WILBUR, E; MERET, S; KOSSOVE, D & KERMANI, K The infrared spectra of amber and the identification of Baltic amber. *Archaeometry*, 9, 1965, p 96-109, 8 fig. Tests on samples using IR transmission technique suggest that it is possible in most instances to identify Baltic amber in ancient amber artifacts, providing suitable precautions are taken; in contrast, non-Baltic ambers are less easily characterized and less positive results may be forthcoming.

506. BECK, C W, et al The provenance of archeological amber artifacts; an annotated bibliography. Part I 8th century BC to 1899. Part II 1900- 1966. *Art and Archeology Technical Abstracts*, 6, 2, 1967, p 213-302; 6, 3, 1967, p 203-80. Not seen.

507. BECK, HORACE C I -Classification and nomenclature of beads and pendants. Read 19th October 1926. *Archaeologia Or Miscellaneous Tracts Relating To Antiquity*, 77, 1928, p 1-76, 4 pls, 87 fig.

Cont: introd; Part I Definitions; II Classification; III Perforation; IV Color; V Material; VI Decoration; index; discussion.

Extremely detailed analysis of forms and proportions of beads and pendants, types of perforations, surface characters, etc, all designed to furnish a consistent system of classification and reference for use in archeology. The wide variety of forms and

materials are of considerable interest to the lapidary and jeweler.

508. -----1941 The beads from Taxila. *Memoirs of the Archaeological Survey of India*, No 65, 1941, 66 p, 12 pls. Price Rs 5-6 or 8s 6d. Not seen. Stated to describe the large number of beads uncovered when the ruins of Taxila, in the Punjab, were excavated; artifacts dated to 700 BC to 500 AD; gemstones included etched chalcedony, glazed quartz, amethyst, jasper, malachite, lapis-lazuli, garnet, beryl.

509. BECK, R Untersuchung über einige sudafrikanische Diamantlagerstätten. *Zs Dt Geol Ges*, 59, 1907, p 245-307. Not seen.

BECK, RUSSELL J (1941-)

Director Southland Museum, Invercargill, South Island, N Z; archeologist. specializing in New Zealand jade and artifacts.

510. -----1970

New Zealand Jade | The Story of | Greenstone | by | Russell J. Beck | [orn] | A.H. & A.W. Reed | Wellington-Auckland-Sydney-Melbourne [1970]

8°: 106, [6 blank]p; 38 b&w photos, 16 col photos on both sides of 12 bound-in glossy f; 16 text drawings; 6 geol sketch maps. Gray-green cloth-like paper over bds, gold lett spine. Col dj, overall jade photo, white lett; 6 col photos on back; resume, vita. 21.1 x 13.8 cm(8 3/8 x 5 1/2 in). Cut. Aus $2.95; UK £1.90. ISBN 0 589 00424 7; JSL.

Cont: 1/2tp; tp; publ data; dedic; fwd; tab cont; ill lists; ackn; text; gloss; append; biblio(p 101-2, ca 35 entries); index; 3 blank f.

"The most authoritative book ever on New Zealand nephrite and bowenite," H D Skinner, Director Emeritus, Otago Museum(p[7]). Covers all aspects: definition of terms, Maori history and legends concerning jade, locations of alluvial and in-situ deposits(with maps), bowenite serpentine, origin of nephrite, properties, lapidary treatment by the Maori and by modern artisans,and hints to the modern worker in jade. Clear, useful illustrations, many depicting jade types, externally and via transmitted light, artifacts, jade boulders, scenes in the jade country, views in modern lapidary shops, etc. The history of modern lapidary work in New Zealand jade is adequately covered. Rev M O'Donoghue, *J Gemm*, 12, 8, 1971, p 363-4, "the coloured illustrations are particularly meritorious;" *Gems*, 3, 5, 1971, p 43.

511. -----1984, same, expanded New Zealand Jade. Wellington: A.H. & A.W. Reed, 1984, vi, 174 p, col ill. NZ $24.95. Not seen; M. O'Donoghue, *J Gemm*, 20, 1, 1986, p 57: "this fascinating and readable book is concerned with all aspects of jade;" R K Mitchell, *J Gemm*, 19, 8, 1985, p 733.

512. BECK, WILHELM VON(1822-) & MUSHKETOV, I V (1850-1902)

Über | Nephrit Und Seine Lagerstätten | [wavy rule] | Von W.v.Beck und J.W.v. Mushketov. | [rule] | (Hierzu Tafel I-V). | Separat-Abdruck aus den Verhandlungen der kaiserlichen Mineralogischen | Gesellschaft zu St.-Petersburg; II Serie, Band XVIII. | [orn rule] | St.Petersburg. | Buchdruckerei Der Kaiserlichen Akademie Der Wissenschaften. | (Wass.- Ostr., 9 Linie, N° 12). | 1882.

8°: [2], 76 p; 5 pls(1 part col map, 3 tinted views, 1 col pl of thin-sections with printed tissue overlay bound-in at end of text). Pale yellow-tan wrap, title in ornate frame on cover. 23.9 x 16 cm(9 3/8 x 6 1/4 in). Uncut. USGS Kunz Coll, GS 34-825.

Cont: tp; publ data; text; pls explan; pls.

Extremely important paper on nephrites. Treats those from China, early knowledge of same, nephrite from Belaja River in the Government of Irkutsk, with chemical analyses, nephrite from Büstraja River in the same government, also nephrites from the Caucasus, Isetj River nr the village of Kljutschi in Government of Perm, from Lake Irgunj, the village of Kultuk, and from the Yarkand Valley and from Samarkand, etc. The authors painstakingly collected specimens from numerous places in Asia and Europe, described them, examined fine structures petrographically, and determined properties. One of the plates shows veins of nephrite and nephrite gravel deposits in the classic source area of the Kuen-Luen Mountains of Khotan. This article, or its summary, may be the same as that entitled "Nefrit i ego mestorozhdeniya," *Gornyi Zhurnal*, 2, 1882, p 375-424; also in *Zapiski Imperatorskago Mineralogicheskago Obshchestva*, St. Petersburg, ch 18, 1883, p 1-76. Clarke & Merrill, "On nephrite and jadeite," *Proc USNM*, 11, 188, p 121 (which see), note that "the microscopic examinations... were in cases accompanied by chemical analyses and the paper as a whole forms a most important addition to the literature of the subject." See also MUSHKETOV, I V.

513. BECKE, LOUIS

Edward Barry | (South Sea Pearler) | By | Louis Becke | Author of "By Reef and Palm," "Ridan the Devil," | "Wild Life in southern Seas," etc. | [publ logo] | London | T. Fisher Unwin | Paternoster Square | 1900 [title in red & black]

8°: viii (first 2 p blank), 246, [1], [1 blank]p. Dk green ribbed cloth, gold title & frame on spine. 18.6 x 12.4 cm(7 3/8 x 4 7/8 in). Cut. All paper rib-grained, like hand-laid paper. JSL.

Cont: blank f; 1/2tp; other publ bks; tp; publ data; tab cont; text; print data; blank p.

Despite being a fictional account of a cruise to a fabulously rich pearling ground, the author, evidently well acquainted with his material, gives useful background data on pearl beds, diving for pearls, and other information based on experiences in the waters of Australia and the South Seas.

514. BECKER, C J Nordens Guld, Dansk Rav, Oprindelse og aeldste historie, af C.J. Becker, Dr.Phil. A/s Provins-Forlaget-Randers, 1950. [Copenhagen]

4°: 30, [2 blank]p; 10 text photos. Heavy white paper wrap, black lett cover + ill of brownish lumps of amber. 22.5 x 14.5 cm(8 3/4 x 5 5/8 in). Glossy paper. Ove Dragsted Libr, Copenhagen.

Amber found in archeological excavations in Denmark and its uses by the prehistoric tribes inhabiting the region. Photos show various specimens, with Fig 1 illustrating an ovoid mass of 2960 gm which is preserved in the National Museum in Copenhagen. Other photos show insects in amber and worked pieces.

BECKETT, R & CHALMERS, O, see READER'S DIGEST SERVICES...

515. BECKMANN, FRANZ

Ursprung | und | Bedeutung des Bernsteinnamens | Elektron. | Von | Dr. Franz Beckmann | Professor am Königl. Lyceum Hosianum zu Braunsberg. [[rule] | Besonderer Abdruck aus dem ersten Bande der Zeitschrift für die | Geschichte und Alterthumskunde Ermslands. | [rule] | Braunsberg 1859. | Bei Ferd.Beyer (Ed.Peter).

Originally in the cited journal, I Bd, 2 H, 1860, p 201-43; 3 H, p 633 ff & 647 ff.

8°: [2], 43, [1]p. Pinkish-tan wrap, title on cover in ruled frame; similar frame with central onr back cover. 23.4 x 14.1 cm(9 1/4 x 5 1/2 in). JSL.

Cont: tp; publ data; text; errata.

Minutely examines a very large number of old and new references to amber, no less than 198 footnotes supplied(!), to unravel the origin of the name "electron" as applied to amber. He concludes that the name is related to "electorius," a mythical stone supposedly found in the craw of a cock and possessing magical properties, and that the name first appeared among the Ionian Greeks and alluded to protective, curative, or other talismanic properties for which amber was prized. As a by-product of this etymological study, much is unearthed in the way of amber lore which makes especially rewarding reading, not to mention the discussions by Beckmann concerning the many works that he consulted. An enormous effort, compressed into a few pages. Note: Braunsberg = Braniewo, a city now in northern Poland; Ermland = a region formerly in East Prussia and now also in Poland.

515A -----1860 Über den altpreussisch-littauischen Bernsteinnamen Gentaras oder Gintaras. Ibid, 1, 1860, p 633-40. Not seen; on the origin of the Old Prussian-Lithuanian name for amber, modernly in Lithuania, "gintaras."

BECKMANN, JOHANN(1739-1811)

B Hoye a d Weser, Hannover; att gymn of Stade; U Göttingen 1759; changed from theological studies to nat philosophy; held chair in nat phil at St Petersburg; visited Sweden where became acquainted with Linnaeus; Prof Extraord Philosophy Göttingen 1766 and Prof Ord in 1770; d Göttingen. Produced an edit of Marbod's *Liber lapidum*, 1799, which see. Biogr by Manfred Beckert, Leipzig, B.G.Teubner, 1983, 119 p.

516. -----1780-1805 Beiträge zur Geschichte der Erfindungen. Appeared in several editions, one of which described below.

517. -----1846, 4th edit

A | History | Of | Inventions, Discoveries, | And Origins. | By John Beckmann, | Professor Of Oeconomy In The Universitv Of Göttingen. | Translated From The German, | By William Johnston. | [rule] | Fourth Edition, | Carefully Revised And Enlarged By | William Francis, Ph.D., F.L.S., | Editor Of The Chemical Gazette; | And | J.W. Griffith, M.D., F.L.S., | Licentiate Of The Royal College Of Physicians. | Vol.I[-II]. | London: | Henry G. Bohn, York Street, Covent Carden. | 1846.

"Bohn's Standard Library."

8°: Vol I: xxiii, [1 blank], 518, [2 blank]p; front engrav portr of Beckmann, tissue, tip-in. Dk green ornately embossed cloth, gold spine title. 18.2 x 11.5 cm(7 1/8 x 4 1/2 in). Te uncut. JSL.

Cont: series tp; quot; pl; tp; publ data; tab cont; pref; transl pref; mem of the author; text; blank f.

Vol II: xii, 548 p; engrav front portr James Watt, tissue, tip-in.

Cont: pl; tp; publ data; tab cont; text; index to both vol.

This much cited work contains several interesting and useful passages concerning gemstones, ie, early history of tourmaline, I, p 86-93, colored glasses and miscellaneous remarks on gems made from them, p 123-37, passim, an excellent discourse on pearls and early attempts to culture them and to make imitations, p 258-68 (including a detailed account of nacre-simulating coatings made from fish scales), on ultramarine, once made from lapis-lazuli, p 467-77, (also useful for early history of the stone) and lastly, the mysterious phosphorescent Bologna stone, a type of massive barite, is described on p 429-34 of vol II.

BECKMANN, J, see MARBOD, 1799

BECKNER, S, see FREEDMAN, M

BECKWITH, JOHN A (1902-1974)

B Evanston, Wyoming; MA U Idaho; Engl instructor U Idaho to 1943; joined Veterans Admin to retirement 1965; thence to asst prof Engl Boise Coll, ret 1972; d Boise.

518. -----1972

Gem Minerals | Of Idaho | By | John A. Beckwith | Drawings And Maps By Jane Beckwith | [logo] | The Caxton Printers, Ltd. | Caldwell, Idaho | 1972

Cementb: [2], 123, [3 blank]p; front index map; 23 photos; 11 sketch maps; 20 head- & tailpc sketches. Heavy col wrap, col photo on cover; title in green & black; col photos back cover; resume, vita, portr of author inside back cover. 22.8 x 15.2 cm(9 x 6 in). Cut. $2.95. LC 70-150817; ISBN 0-87004-228-9; JSL.

Cont: blank f; 1/2tp; front; tp; publ data; tab cont; ill list; map list; pref; text tp; text; field trips; index; 3 blank p.

First thorough monograph for Idaho's gemstones and an excellent one. Describes gemstones, where found, directions for travel, tips on digging, etc for crystalline quartzes, chalcedonic varieties, opal, garnet, corundum, beryl, topaz, and miscellaneous, 19 in all. Field trip maps include celebrated star almandine deposits, corundum gemstones, and a trip to South Mountain, noted for ore minerals. Wrap detaching and leaves loosening.

519. BEDFORD, JOHN

Collector's Pieces 17 | [rule] | Jade And Other | Hardstone | Carvings | John Bedford | [rule] | [photo of a carving] | Cassell · London [1969]

8°: 64 p; 2 col photos on a glossy doublef, bound-in; ca 60 fig. Bright blue-green clothlike paper over bds; gilt lett spine. Col dj. 18.4 x 12 cm(7 1/4 x 4 3/4 in). Cut. 12/6 net or 62-1/2 pence. ISBN 304 93232 9. JSL.

Cont: tp; publ data; tab cont; introd; text.

On the whole, a useful summary for the novice but marred with several errors in places where the mineralogy of certain

gemstones is treated. Nature of gemstones in general, quartz, lapis lazuli, and other minerals besides jades described, lapidary work in which 12 reproductions of Chinese workshops and carvers are reproduced from Heber Bishop's jade catalog, Chinese jades, also Mughal, Maori and Precolombian jades, and lastly gem engraving and working of hardstones in classical and renaissance periods. All illustrations are so faint that they are difficult to decipher; one illustration inverted; color photos of typical carved gemstones. Extensive comment G M Born, 1982, p 70-71; Yang, 1110.

BEESLEY, C R, see HUFFER, H

520. BEET, ARTHUR J, Editor Kimberley, its history and diamonds, with a summary of the siege. Kimberley, Diamond Fields Advertiser, 1914, 92 p, ills. Not seen; from N Monica Southey, no 71.

BEET, GEORGE(1853-1935)

Arrived S Afr 1861; assoc with press, law agent Kimberley; according to A F Williams, *Some Dreams Come True*, p 202, "he was one of the best authorities on the lives and characters of the original pioneers who rushed to Pniel and Klipdrift and later to the Dry Mines at the time of their discovery."

521. ----- nd ca 1931

The Grand Old Days | of the Diamond Fields | Memories of Past Times with the [Diggers of Diamondia | By George Beet | With A Foreword By The Rt.Rev.Mgr. F.C.Kolbe | Illustrated | [publ logo] | Maskew Miller, Limited | Cape Town [nd, ca 1931]

8°: [8] (first 4 p blank), xix, [1 blank], 192, [1 blank]p.; front photo + 60 text photos. Red cloth, black lett title on cover, part underlined with pale gray bar and enclosed in single-rule frame; black lett & bar on spine; publ logo back cover. Pale tan endp. 21.9 x 13.9 cm(8 5/8 x 5 1/2 in). Cut. Glossy paper. JSL.

Cont: 2 blank f; 1/2tp; front photo; tp; dedic; tab cont; ill list; fwd; introd; text in 3 parts(24 chs); index; publ data; blank p.

Reminiscences on many aspects of early diamond mining in South Africa by an eyewitness to the events who knew most of the persons involved. The first two parts systematically recount the discovery of diamond, alluvial diggings, and the pipe mines and their development. The last part provides biographical sketches of J B Robinson, C J Rhodes, and Alfred Beit, but most space is given to Robinson. The gemologist will find the detailed descriptions of a number of remarkable diamonds particularly worthwhile, as well as the highly interesting circumstances under which they were found, ch 14, p 111-29. The data appear to be exceptionally complete and include contemporary photographs of the stones.

522. BEET, GEORGE & TERPEND, THOMAS LAURENT

The Romance And Reality | Of The | Vaal Diamond Diggings, | By | George Beet and Thomas Laurent Terpend. | [rule] | With an Introduction by Mr. Advocate S.B. Kitchin, B.A., LL.B. | (Editor of "The South African Law Journal." [sic] | [rule] | Over Ninety Illustrations. | [rule] | (Copyright). | Printed and Published by the Diamond Fields Advertiser, Limited. | Kimberley. | [rule] | 1917.

8°: edgestapled: [2], 117, [1]p + ix, [1 blank]p; front photo pl + over 90 other photo ill in text. Dull red wrap, title on cover in wavy- rule frame with diamond crystal & pick & shovel. 21 x 13.4 cm(8 1/4 x 5 1/4 in). Cut. USGS Kunz Coll; GS 33-317.

Cont: pl; tp; dedic; ill list; tab cont; text in 2 parts; index; blank p.

A very valuable firsthand account of the pioneers in the initial phases of diamond mining in South Africa as told by Beet in Part I, "Memories of the Past," p 13-41, and by Terpend, Part II, "The Diggings of To-Day," p 42-117. Much fine detail and many contemporary photos which, however, did not reproduce well in every instance.

523. BEETZ, WERNER Über den Ursprung der Achatgërolle und der Gerölle anderer Quarzmineralien in dem Diamantseifen an der Küste Südwestafra, *N Jb Min*, B-Bd 47, 1923, p 347-80, pls 7-9. Not seen.

524. -----1931 Process of concentration in alluvial and allied diamond placers of southwest, south central, and east Africa. *Congrès International des Mines, Métallurgie et Géologie appliquée*, VI. Session, Liège, 1930, Section gèologie, p 49-68, 1931. Not seen.

BEETZ, W, see KAISER, E, Diamantenwüste, 1926

BEGER, LORENZ, or LAURENT, LAURENTIO, etc (1653-1705)

B Heidelberg; counsellor to King of Prussia, Elector of Brandenburg; librarian & curator of his coll of antiquities; d Berlin. Comments on his works in Mariette, *Pierres gravées*, 1, principally p 301-6; also P & H Zazoff, *Gemmensammler*, p 34-6.

525. -----1685 Thesaurus ex Thesauro Palatino Selectus sive Gemmarum et Numismatum quae in Electorali Cimeliarchio continentur elegantiorum aere expressa... Laurentio Begero, Electoris Palatino Antiquario & Bibliothecario. Heidelbergae [Delborn] 1685.

2° in 4's: 7 f, 421 p, 1 f errata; engrav front; 3 fullp pls, many text ill. Not seen; above combines data in Mariette *Pierres gravées*, 1, p 454 and No 89, Marlborough Rare Books, London, Catalogue 8, 1984, p 21. The latter notes "not in Berlin Catalogue, Beger's first work." King, *Antique Gems and Rings*, 1, p 462: "3 vols. fol. 1687 [sic]. A selection from the statues, coins, and gems of the Elector Palatine's collection at Heidelberg Castle (since removed to Berlin). To be admired for the wonderful delicacy of the copper-plates, which, as far as regards the gems, have certainly never been surpassed."

526. -----1692 Spicilegium Antiquitatis, sive variarum ex antiquitate elegentiarum, vel novis luminibus illustratum, vel recèns etiam editarum, Fasciculi, à Laurentio Begero, Elect. Brandenburgici Antiquario. Colonia Brandenburgicae 1692, in fol. fig. Not seen; from Mariette, ibid, p 454, comment p 303.

527. -----1696

Thesaurus | Brandenburgicus | Selectus: | Sive | Gemmarum, | Et | Numismatum | Graecorum, | In | Cimeliarchio | Electorali Brandenburgico, | Elegantiorum | Series, | Commentario Illustratae | A | L. Begero, | Serenissimi

Electoralis Brandenburgici | Consiliario Ab Antiqvitatibus Et Bibliotheca. | [large engrav vignette] | Coloniae Marchicae, | Typis Et Impensis Electoralibus, | Excudit Ulricus Liebpert, Typogr. Elect. Brand. M.DC.XCVI. [Coln, 1696; 3 vol]

Vol I: 2°: [16], 524, [43], [1 blank]p; pi^4, b^4, A-Ttt^4, Uuu^2, a-e^4, f^2. Fullp allegorical engrav pl ahead of title, engrav portr pl of Frederick III after title, bound-in; 2 fullp engrav pls facing p 442 & 446; 125 text engrav of gems & rings and about 3 times that number of coins; 22 engrav head- & tailpcs; 11 engrav inits; 1 text fig. 39.2 x 24.5 cm(15 1/2 x 9 5/8 in). Cut. JSL.

Cont: 1/2tp; pl; tp; pl; dedic; pref; text; index; addenda & corrigenda; blank p.

Vol II:

Thesauri | Electoralis Brandenburgici | Continuatio: | Sive | Numismatum | Romanorum, | Quae | In Cimeliarchio | Electorali Brandenburgico | Asservantur, | Tam | Consularium | Quam | Imperiatiorum, | Series Selecta, | Aere Expressa, Et Commentario Illustrata, | Authore | Laurentio Begero, | Serenissimi Electoris Brandenburgici | Consiliario Ab Antiquitatibus Et Bibliotheca. | [large engrav vignette] | Coloniae Marchicae, | Impensis Electoralibus Impressit | Ulricus Liebpertus, Electoralis Typographus, | Prostat | Berolini Et Lipsiae, | Apud Michaelem Rudigerum. [nd]

2°: [14]p + p525-879 + [31], [1 blank]p (final f is supplied); a^4, b^2, Uuu^2, Xxx-$Rrrrr^4$, Sssss-$Aaaaaa^2$ + unsigned supplied f. Fullp engrav pl of museum interior bound-in ahead of title; 14 engrav head- & tailpcs; 8 engrav inits; over 500 text engrav of coins.

Cont: 1/2tp; pl; tp; dedic; pref; text; index; supplied f bearing errata & engrav recto; verso blank.

Vol III:

Thesauri | Regii Et Electoralis | Brandenburgici | Volumen Tertium: | Continens | Antiquorum | Numismatum | Et | Gemmarum, | Quae | Cimeliarchio Regio-Electorali Brandenburgico | nuper accessére, | Rariora: | Ut & | Supellectilem Antiquariam | Uberrimam, | id est | Statuas, Thoraces, Clypeos, Imagines tàm Deorum, quàm Regum | & Illustrium: Item Vasa & Instrumenta varia, eaque inter, fibulas, Lampades, Urnas: | quorum pleraque cum Museo Belloriano, quaedam & aliunde | coëmta sunt, | Dialogo Illustrata | à | Laurentio Begero, | Serenissimo & Potentissimi Regis Prussia & Electoris Brandenburgici | Consiliario ab Antiquitatibus & Bibliotheca. | [large engrav vignette] | Coloniae Marchicae, | Impressit Ulricus Liebpertus, Typographus Regius & Electoralis Brandeburgicus. [nd]

2°: [2], 472, [32]p; a^4 b^2, (A)-$(Nnn)^4$, $(Ooo)^2$-$(Xxx)^2$; fullp engrav pl ahead of title, bound-in; 41 fullp engrav pls bound-in; 322 engrav text fig (17 engrav gems, 165 coins, 140 misc); 19 engrav head- & tailpcs; 10 engrav init.

Cont: 1/2tp; pl; tp; dedic; pref; text; index; list of major sculptures & errata.

Dates in last two vols not supplied but other sources give 1696-1701.

A most lavishly illustrated catalog of the antiquities in the collection of Friedrich I(1657-1713), Elector of Brandenburg, King of Prussia. The text takes the form of a dialog between the custodian of the collection, a certain Dulodorus, and an antiquarian named Archeophilus, recognizable as Beger and Ezechiel Spanheim (1629-1710 respectively, the latter an official of the Brandenburg government since 1680, and twice ambassador to England. Spanheim encouraged and supported Beger in the preparation of the work, according to Zwierlein-Diehl, *Antike Gemmen dt Sammlungen*, 2, p 9, who also reproduces the first volume titlepage and two of the large plates from Beger. Zwierlein-Diehl also notes that Beger "published between 1696 and 1701 the 'Thesaurus Brandenburgicis Selectus,' a selection of gems, coins and other antiquities of the collection. The gems are contained in the first and third volumes." More specifically, the gems are treated upon p 6-226 of the first volume, and p 186-216 of the second, the last interestingly describing a vase of "murrhine" (chalcedony) with incised Egyptian figures and illustrated upon a fullpage engraved plate in addition to the engraved gems. The third volume depicted several phallic objects which attracted the attention of Goodland, p 44, who incorporates the present work in his bibliography.

An extended discussion of the work, its background, character, and contents is to be found in Mariette *Traité pierres gravées*, 1, p 304-6; he gives the date of third volume as 1700, and notes that the many antiquities in this volume were formerly in the collection of Giovanni Pietro Bellori(1615-1696), the celebrated Roman antiquarian and sometime keeper of Queen Christina of Sweden's cabinet and her librarian. A. Furtwängler, *Antiken Gemmen*, 3, p 406-7, also comments at length on this work, approving in general the critique of Mariette but also noting several defects, among them the unhelpful sprinkling of engravings throughout the text and their "dryness, stiffness and inartistic" character, not to mention his opinion that they lacked fidelity to the originals, especially the heads, and deploring the tendency for Beger to choose gems from the Renaissance and class them as antique. A scarce work, commonly separated by volume and with plates removed.

528. -----1697

Contemplatio | Gemmarum | Quarundam | Dactyliothecae | Gorlaei, | Ante Biennium | & auctae, & illustratae: | Instituta | à | Laurentio Begero, | Serenissimi Electoris Brandenburgici Consiliario | ab Antiquitatibus & Bibliotheca. | [woodcut orn] | Coloniae Brandenburgicae, | Imprimebat Ulricus Liebpertus, Electoral. Typographus. 1697.

4°: 39, [1 blank]p; A-E^4; woodcut head- & tailpcs, inits; 28 text engrav. 24.75 x 19.75 cm(9 3/4 x 7 3/4 in). Cut. JSL.

Cont: tp; text; blank p.

Examines various engraved gems in the dialogue fashion noted above, but now between Dulodorus and Etastes. Commonly found bound-up with other Beger works for same year. Mariette, *Traite pierres gravées*, 1, p 454, comment p 270.

529. -----1702 Colloquium quorumdam de tribus primis Thesauri Antiquitatum Graecarum voluminibus, ad eorum auctorem relatio, à Dulodoro (Laurentio Begero) scripta. (Coloniae Brandenburgicae). 1702. fol. fig. Not seen: from Mariette, ibid, 1, p 467, comment p 435.

530. BEHIER, JEAN Contribution a la minéralogie de Madagascar. *République Malgache Ann Géol de Madagascar*, fasc 29, Tananarive, Imprimerie Officielle, 1960.

8°: 78 p, pale gray printed wrap, title in red & black on cover; 27 x 21.2 cm(10 5/8 x 8 3/8 in). Cut. JSL.

Descriptions of minerals largely those found as a result of intensive prospecting in the years since World War II and generally not included in Lacroix *Minéralogie de Madagascar*, which see. Alphabetical by species, brief property data, deposits,

character of specimens, sizes, etc., and where appropriate, remarks on gem quality. Gem species: apatite, cordierite, corundum, diopside, disthene(kyanite), hambergite, rhodonite, rutilated quartz, scheelite, spessartine, sphene, turquoise, zircon. Biblio p 77-8, 73 entries.

BEHRENS, THEODOR HEINRICH(1842-1905)

Ger mineralogist, metallurgist, microchemist; PhD Kiel U 1868; prof Delft Polytech 1875-98; prof min 1898-1905. Pogg 5, 1926, p 85.

531. -----1871 Mikroskopische Untersuchungen über die Opale. *Sitzungb kaiserl Akad Wiss, Wien, math-naturw Cl*, Bd 64, Jg 1871, p 519-66, 33 fig on 2 col pls; 2 text fig. Also separate of 48 p, fold col litho pls; 23.7 x 14.8 cm(9 3/8 x 5 3/4 in). Cut. JSL.

First thorough microscopical investigation of opal, including precious opal, in an attempt to discover types and compositions of inclusions, internal structure, and other features as revealed in thin- sections. Classes opals as massive, hydrophane, cachalong, quartzy(when quartz is a component), and discovers the presence of iron oxide as an inclusion, and others. Of far greater interest, however, are the extensive remarks of Behrens on his findings in the fine structure of precious opals from various deposits and the conclusions he drew as to cause of play of color. The latter he attributes to lamellae of suitable thinness which differ in index or refraction such that diffraction occurs. while admitting that such lamellae can be parallel-oriented, he speculates that movements during formation caused islands of such lamellae to shift position, thus accounting for the patchiness in color play which is such a common feature of precious opals. The plates colorfully depict a variety of inclusions. while Behrens established a theory of color for precious opal which held its ground until very recently, he also came very close during his investigations to assigning diffraction to minute spherules in opal which he also observed but attributed no particular significance to.

BEILBY, GEORGE THOMAS(1850-1924)

Scot industrial chemist noted for improving methods for extracting oil from shales and synthesizing alkali cyanides; best known for his investigations on solids as described below.

532. -----1921

Aggregation And Flow | Of Solids | Being The Records Of An Experimental | Study Of The Micro-Structure And | Physical Properties Of Solids In Various | States Of Aggregation | 1900-1921 | By | Sir George Beilby, F.R.S. | Macmillan And Co., Limited | St.Martin's Street, London | 1921

8°: xv, [1 blank], 256 p text + [68]p on glossy paper bearing a diagram and 106 (5 col) fig on 34 pls; text fig. Dk blue cloth, blind rules on covers, gold rules & lett spine. 22.2 x 15.2 cm(8 3/4 x 6 in). Cut. JSL.

Cont: 1/2tp; publ data; tp; copyright; pref; tab cont; 11 sections of text; biblio(p 255-6, 18 entries); pls.

Classic work, frequently cited by authors discussing the nature of polish on gemstones; contains the original hypotheses of Beilby and accounts of his laboratory experiments from which he concluded that "polish is the result of surface flow" (p 79-119). The apparatus, specimens, and procedures are described, along with results, particularly upon calcite. This section discusses the physical bases for the phenomena observed during abrasion and polish, and subsequent etching to remove the polished layer, all of which led to his conviction that the uppermost layers smear or "flow", thus filling in scratches and rendering the surface liquid-smooth. A revolutionary idea and offering the first alternative to Herschel's concept of increasingly fine abrasion leading to polish.

BEIT, ALFRED(1853-1906) & LOCKHART, J G

Beit financier, philanthropist; priv educ; entered Hamburg office of South African merchants at age 17; spent 1874 in Amsterdam to learn diamond business; to S Afr in 1875, where he soon set himself up in the diamond business, and later in other partnerhips and enterprises leading to accumulation of great wealth and importance. DNB.

533. -----1957

1906-1956 | [star] | The Will And The Way | being an account of Alfred Beit | and the Trust which he founded | by | Sir Alfred Beit | and | J.G. Lockhart | [publ logo] | Longmans, Green And Co. | London [orn] New York [orn] Toronto [1957]

8°: xii, 106, [2 blank]p; there is an insert of 24 p between p 100-101 bearing maps & graphs(part col) and numbered [1]-24; additionally, a tip-in portr pl of Beit on pale tan paper as front, also 25 photos on 16 bound-in and tipped-in pale tan glossy leaves not included in pag. Bright red cloth, gold circles enclosing gold lett on cover; gold lett spine. Pale tan endp. Pale tan dj, with lett, etc in red; resume, vita. 24.6 x 18.6 cm(9 3/4 x 7 3/8 in), Cut. 42s net. JSL.

Cont: 1/2tp; pl; tp; publ data; Beit Trust officers; quote; ackn & ltr; tab cont; ill list; 14 chs, 2 appends(the first included in pag, but not the second! which is the separately paged insert); index; blank f.

Early history of Beit & family, the circumstances leading to Beit's departure from Germany for South Africa, his diamond buying, acquisitions of mine properties, etc. Most of text devoted to establishment and operation of the philanthropic Beit Trust. Append 1 is his will; append 2 detailed statistics and graphs on growth and progress of Rhodesia and Nyassaland, due in no small measure to efforts of the Beit trustees.

534. BELGIUM. BRUSSELS, MUSEES ROYAUX DU CINQUANTENAIRE Catalogue des Intailles et Impreintes Orientales. 1917. 263 p. Not seen.

534. BELGRAVE, DALRYMPLE, J

Luck | At The | Diamond Fields. | By | Dalrymple J. Belgrave, | Of The Inner Temple, Barrister-At-Law | "Sir, I must have that diamond from you." | Shakespeare, Comedy of Errors. | ...[4 lines from Winter's Tale]... | London: | Ward And Downey, Publishers, 12, York Street, Covent Garden. | [All Rights reserved.] [1887, according to Mendelssohn]

8°: x, [1], [1 blank], 393, [1]p + 10 p adverts. Brown-orange cloth, orn black lett & sketch of a prospector on cover; black publ logo back cover; orn gold lett & crossed miner tools on spine. Endp design, mountain ash with berries, gray-green. 18.7 x 12.4 cm(7 3/8 x 4 7/8 in). Te uncut. JSL.

Cont: 1/2tp; tp; publ data; pref; tab cont; 13 unnumb chs; publ data; adverts.

Short stories based on travels, mining, diamond buying, and other aspects of business and life in the diamond fields of South Africa prior to the amalgamation of claims upon the pipe deposits. While fictional, the author derives his material from

firsthand experience in the fields and much that is said is actually fact.

535. BELIKOV, BORIS PAVLOVICH & PETROV, VALERIY PETROVICH

[logo] Akademiya Nauk SSSR | Institut Geologii | Rudnykh Mestorozhdeniy, | Petrografii, | Mineralogii I Geokhimi | [rule] | B.P. Belikov, V.P. Petrov | Oblitsovochnyie | Kamen | I Ego Otsenka | [logo] | Izdatelstvo | "Nauka" | Moskva | 1977

Cementb: 138, [2]p; 34 fig; 8 col photos on both sides of 2 glossy f bound-in betw p 64-5; 14 tab. Tan col wrap, black lett. 21.5 x 14.1 cm(8 3/8 x 5 1/2 in). Cut. 1 r. 4,545 copies. JSL.

Cont: tp; resume; introd; text; summary; concl; large table of rock & properties; biblio(p 132-6, 152 entries + 19 journ on p 137); tab cont; publ data.

Primarily a work on the physical, chemical, and other properties of building stones and resistance to weathering.

536. BELIKOV, B P, KOUTIN, D P, LITSAREV, M A & SKARIS, Kh

Akademiya Nauk SSSR Akademiya Nauk Respublikhi Kuba | ... | Oblitsovochnye | Kamni | Kuby | Geologiya, Lokalizatsiya, Svoistva | [publ logo] | Izdatelstvo "Nauka" | Moskva 1981

16°: 271, [1] p; 19 tab; 68 figs; 11 col photos on both sides of a glossy f tip-in betw p 124-5. Figure 1, a folding geological map of Cuba is tip-in, facing p 14. Glossy white paper over bds, col photos on covers. 19.9 x 12.7 cm(7 3/4 x 5 in). Cut. 2 r,50 k. 1,000 copies. JSL.

Cont: tp; resume & publ data; introd; text; summaries in Russ, Sp, Engl; biblio(p 264-70, 135 entries); tab cont & publ data.

Ornamental stones of Cuba, geology, mineralogy, origin, localities, etc : green antigorite serpentines, marbles, limestones, also granitoid and gabbroid rocks but last two not quarried; col photos of polished sections of marbles, limestones, serpentines.

BELKIN, JOHANNA SCHWIND, see RÖSSLIN, EUCHARIUS

537. BELLEAU, RÉMY Les amours et nouveaux eschanges des pierres précieuses. Paris, 1576. v, 91 f. Not seen: see BESSER, REINHOLD, 1886; a modern edition by M.F. Verdier, editor, Genf-Paris, 1973, not seen.

BELLERMANN, JOHANN JOACHIM(1754-1842)

Ger theologian & antiquary; stud U Göttingen; prof theol Erfurt & Berlin; expert in study of Abraxas gems & scarabs. NBG, 5, 251.

538. -----1817(?)-1820 J.J. Bellerman's drei Programmen über die Abraxas-Gemmen. Berlin, In der Fr. Nicolaischen Buchhandlung. [n.d., 1817?]-1820.

3 vol in one. 21 cm. Title vignettes in 1 and 3. Each vol with separate titlep. USGS Kunz Coll; GS 33-318 (from which this data obtained).

Contents: 1 Stück. Einladung zur dritten hundertjährigen Jubelfeier des Reformationsfestes, welche in dem Berlinisch-Köllnischen Gymnasium zum Grauen Kloster Donnerstag den 6ten November 1817, von 10 Uhr an, veranstaltet wird; nebst einem Versuch über die Gemmen der Alten mit dem Abraxas-Bilde. 1817? 2 Stück. Einladumg zur öffentlichen Prüfung, welche in dem Berlinisch-Köllnischen Gymnasium zum Grauen Kloster, Sonnabend Vormittag den 14ten März, 1818... und in der Köllnischen Schule, Montag den 16ten März... veranstaltet wird; nebst einem Versuch über die Gemmen der Alten mit dem Abraxas-Bilde, 2 Stück. 1818. 3 Stück. Einladung zur Öffentlichen Prüfung, welche in dem Berlinisch-Köllnischen Gymnasium zum Grauen Kloster Montag Vormittag den 5ten April 1819... und in der Köllnischen Schule Dienstag den 6ten April Vormittag... veranstaltet wird; nebst einem Versuch über die Gemmen der Alten mit dem Abraxas-Bilde. 1819. Goodland, 47.

539. -----1820

Ueber die | Scarabäen=Gemmen, | nebst Versuchen, | die darauf befindlichen Hieroglyphen zu erklären. | Erstes Stück, | womit | zur öffentlichen Prüfung | in dem Berlinisch=Köllnischen Gymnasium | zum grauen Kloster, | Montag Vormittag, den 27sten März 1820, von halb 9 und Nachmittag von 2 uhr an, | und | in der Köllnischen Schule | Dienstag, den 28sten März, Vormittag von 9 Uhr an | gehorsamst einladet | [3 gems? engrav with hieroglyphics] | der Direktor | Johann Joachim Bellermann, | Doktor der Theologie und Philosophie, Konsistorial=Rath ec. | [orn rule] | Gedruckt bei Dieterici.

8°: 68 p. 20.7 x 12 cm(8 1/4 x 4 3/4 in). Cut. USGS Kunz Coll, GS 34-317.

Cont: tp; fwd; text to p 37, remainder on school administration.

On engraved gems in general, scarab gems, identity of the insect, its symbolism, materials used in gems, inscriptions. Goodland, p 47.

540. -----1821

Ueber die | Scarabäen=Gemmen, | ... | Zweites Stück, | ... | zum grauen Kloster, | Sonnabend Vormittag, den 14ten April 1821, von halb 9 und | nachmittage von 2 Uhr an, | ... | [two panels with hieroglyphics] | ...

8: 76 p; same size. etc. Cont: tp; fwd; text to p 42, remainder on school administrative matters.

541. -----1824

Die | Urim und Thummim, | die | ältesten Gemmen. | Ein Beitrag | zur biblisch=hebräischen Alterthumskunde, | von | Joh. Joach. Bellermann, | der Theol. u. Philos. Doktor, K. Preuss. Konsistorialraths, ausserord. Prof. | der Theol. an der Univers. Berlin, Direkt. des vereinigten Berlinisch=Kölln. | Gymnas. zum grauen Kloster; Ritter des Königl. Preuss. rothen Adler= | Ordens dritter Klasse, Ehren=Mitgliede der Kais. Russ. Universität zu Casan, | ... [4 lines of honors, etc.]... | [wavy rule] | Berlin 1824. | In Verlag der Nicolaischen Buchhandlung.

8°: 112 p; A-G^{8}; finely watercolored engrav pl facing title; large fold tab bound-in at p 88. 20.7 x 12.6 cm(8 1/8 x 5 in). Uncut. USGS Kunz Coll.

Cont: pl; tp; fwd; text in 3 parts; tab cont.

Attempts to unravel the mystery of the Urim and Thummim as parts of the costume worn by the High Priest of Israel.First discusses what is known about the costumes and accoutrements of the high priest, especially the gem-set breastplate, noting sources of information in the Scriptures, speculations as to the identity of the stones, the function of the breastplate, and other

considerations bearing on the problem. Second, describes the gemstones themselves, and in the third part, treats stones that were thought to possess powers of healing or whose powers were derived from celestial influences. For an even earlier view of these objects, see J Spencer, *Dissertatio de Urim & Thummim*, 1669.

542. BELLEY,AUGUSTIN, ABBÉ(1697-1771)
Observations sur un camée antique du cabinet de Mgr le Duc d'Orleans. In: *Mem Acad Belles-Lettres*, Paris, 26, p 475-85; engrav pls bound-in facing p 475. 25.5 x 19.5 cm(10 x 7 5/8 in). Also: Observations sur une agate antique du cabinet de Mgr le Duc d'Orleans, ibid, p 486-503, engrav fig p 487. *Biogr Univ*, 57, p 513-4.

543. BELLI, F Catalogo della collezione di pietri usati dagli antichi per costruire ed adornare le loro fabbriche, ora posseduta dal conte Stefano Karolyi. Roma: Mugnoz, 1842, 8°: 92 p. Not seen; Dewalque, 21.

BELLORI, GIOVANNI PIETRO(1615-1696)
Celebrated Ital antiquary; librarian and antiquary to Queen Christina of Sweden; named "antiquario di Roma" by Pope Clement X; wrote numerous works on antiquities and art history. See also P & H Zazoff, *Gemmensammler*, p 440.

544. -----1685 Veterum Illustrium Philosophorum, Poëtarum, Rhetorum et Oratorum Imagines, ex vetustis nummis, gemmis, hermis, marmoribus aliisque antiquis monumentis desumptae. Christinae Reginae Augustae Bibliothecario, & Antiquario expositionibus illustratae. Rome: Jacobum de Rubeis. 1685. 2°: (94), 20, (58), 16, [42], 16 pp; engrav front + 92 engrav pls. Not seen; from Kenneth Karmiole List 147, Jan 1989, no 19; Cicognara 2765; "attractive series of portraits drawn chiefly from gems and coins." *Biogr Univ*, 4, 122-4.

BELLORI, G Q, see AGOSTINI, L, 1657, 1669

BELLUCCI, GIUSEPPE(1844-1921)
Stud chem & ethnol U Perugia; publ several imp chem treatises as well as others in field of ethnology, particularly exploring folk lore, curious lore, and use of talismans & amulets.

545. -----1889
Dr. Joseph Bellucci | [rule] | Catalogue Descriptif | D'Une Collection | D'Amulettes Italiennes | Envoyée A L'Exposition Universelle | De Paris | 1889 | [publ logo] | Pérouse | Imprimerie Boncompagni | [rule] | 1889
8°: 66 p; pale blue wrap, title on cover. 23.5 x 16.1 cm(9 1/4 x 6 3/8 in). Cut. LC 34-14182.
Cont: blank f; tp; pref; catalog.
Brief descriptions of 412 amulets of Italian origin, by far most of which are made from mineral substances but which also include organic materials as ivory, teeth, coral, etc. Among the minerals are varieties of chalcedony, jade, serpentine, fossils, pyrite, hematite, calcite, concretions, and various rocks. Occasional notes on some of the more interesting examples with indications of their fancied powers. B earlier publ "Catalogo della collezione di amuleti inviata all'Ezposizione nazionale di Milano," Perugia: Santucci, 1881; not seen.

546. BELLUGA, BERNARDO Piedras de san Isidro, su naturaleza, su valor y ventajas. ... Con licencia. - En Madrid, en la imp. de Pedro, año de 1776. 16°: 8, XXII, 56 p. Not seen; from Maffei & Figueroa, 1, p 71, 426-7. Dedication signed D. Bernabé Llugardo, pseudonym of Belluga.
Brief summary of the mineral wealth of Spain in introduction, followed by text which describes gem quality quartz crystals found in the San Isidro mountains; lengthy extracts from other literature on this occurrence given by M & F, among which the quartz is described as "transparent in various colors," apparently useful for cutting gems of value.

547. BELOV, A Promyshlenost tsvetnykh kamnei na Urale. *Gaz Prom Listok*, St Petersburg, 1858, no 31, p 126-8; no 32 p 126-8; no 33, p 131-2; no 37, p 147-8; no 38, p 151-2. Colored gemstone industry in the Urals; not seen.

BELYANKINA, D S, see FERSMAN, A E, 1955

548. BELYAYEV, L M, editor. Rubin i Sapfir. Moskva: Izdatelstvo Nauka, 1974, 236 p, ill, includ tabs & pls. Not seen.

548A----1980, Engl transl. Ruby and sapphire. New Delhi: Amerind Publishing Co., 1980. xix, 443 p; b&w ill. Not seen: "long-awaited translation of *Rubin i sapfir*, first published in Moscow in 1974... revised and enlarged," rev by M O'Donoghue, *J Gemm*, 18, 8, 1983, p 773.

BENESCH, FRIEDRICH
Author, minister; stud nat sci, anthropol, theol Marburg, Halle,Klausenburg; Lic Dr; pastoral assignments 1934-; dir Free High School Stuttgart 1957-.

549. -----1990
Friedrich Benesch | Der Turmalin | Eine Monographie | [logo] Uitgeverij Christofoor, Zeist [The Netherlands, 1990]
P4: copyright "1990 Verlag Urachhaus Johannes M. Mayer GmbH, Stuttgart."
4°: 380, [2 blank]p; ca 185 text fig(3 col), 378 col photos on both sides p 45-196 + 22 col photos on both sides p 293-308, all on glossy f bound-in. Pale purple unfin cloth, blind-stamped tourmaline crystal cross-sect on front cover; purple, gold-rimmed dk purple gold title label on spine; purple marker ribbon; purple endp. Purple dj, top & bottom edges folded inward, col photo on front, white lett & frame; resume, vita, portr of author. 40 x 30.2 cm(15 3/4 x 11 7/8 in). Cut. Matching cloth-edged slipcase. ISBN 90 6238 463 3. Ca USA $225.00.
Cont: 1/2tp; tp; publ data; tab cont; fwd; text; appends(notes; extracts from Goethe, Navalis, et al; nomenclature(p 340-3); notes on ancient identity problems; localities(p 345-71, 69 fig, map) biblio(p 372-80, ca 650 entries);subj index; blank f.
Very large both in size and content representing an astonishing effort in assembling so much information on the fascinating species of the tourmaline group which the author places at the "peak" of aesthetically pleasing minerals. In four parts, the first initially providing a survey of the gradually growing awareness of tourmaline throughout the ages via examination of the oldest literature, paying special attention to unresolved problems of nomenclature vs mineralogical identity and confusion with other species superficially resembling tourmaline. This is followed by a long and truly remarkable series of essays on the outward appearances of tourmaline in its

many crystal manifestations and colors, accompanied by a magnificent plates section of no less than 378 color photographs, but of these only a few are of cut gems. The second section is scientific/mineralogical, from geochemistry, type deposits, etc, into structure, composition, properties, crystallography, and coloration. This part is very detailed and thorough. Abruptly departing from the factual are the next two sections which fill about one-third of the text and deal with the spiritual, metaphysical, and lorical aspects of tourmaline, citing various authorities for support of certain ideas that the author advances as to the meaning of complex inner growth of tourmaline crystals, especially those from Madagascar sources, and the possible powers that such crystals, and others in the Gem Kingdom are thought to possess by mystics, especially those of Germany. Much of this portion of the book is speculative and couched in the typical jargon affected by writers of gemological curious lore. Nevertheless the student of gem lore will find much in these sections to capture his interest.

Among the appendices there is an excellent glossary of tourmaline terms and a worldwide localities index by Maximilian Glas that is illustrated by 69 text figures and a world map. The very large list of references consist mainly of journal citations and contain a number of errors, for example three books by John Sinkankas are credited to another author. A serious lack is an adequate index consistent with the richly-detailed text, the present one, occupying less than a page, being almost useless.

550. BENHAM, CLARENCE

Diver's Luck | A Story of Pearling Days | By | Clarence Benham | [publ logo] | Angus And Robertson | Sydney · London [1949]

8°: xiii, [1 blank], 258 p; front photo pl tip-in; 22 photos on 7 tip-in pls. Pale bluish-green cloth, gilt spine; col dj. 21.6 x 13.5 cm(8 1/2 x 5 3/8 in). Cut. JSL.

Cont: 1/2tp; tp; publ data; poetic quot; tab cont; ill list; fwd; text.

Benham's pearl-diving adventures in Torres Straits and Great Barrier Reef of Australia and in the Solomon Islands; in popular vein and employing jargon of its characters but with some useful background information on pearls and pearling. Reprinted 1951, green cloth, silver lett & star on spine; 21.5 x 13.8 cm(8 1/2 x 5 1/2 in).

551. -----1950, USA edit

[wavy rule] | Pearl Diver's | Luck | By Clarence Benham | [publ logo & rule] | W.W. Norton & Company, Inc. New York [1950]

8°: 286 p + blank f; no ill. Dk blue cloth, silver dec & spine lett. Col dj. Spine incorrectly spells author's name as "Denham"!. 20.9 x 14 cm(8 1/4 x 5 1/2 in). Cut. JSL. Text identical.

552. -----1954, Swed edit

Clarence Benham | [rule] | Dykarlycka | En pärlfiskares Äventyr | Med 15 planscher | Stockholm | Natur Och Kultur [1954]

8°: 211, [1 blank]p; front photo pl tip-in; 22 photos on 7 pls(1 tip-in, others bound in). Heavy, col print wrap; resume, biogr note, adverts. 23.5 x 18 cm(9 1/4 x 6 1/4 in). Uncut. Kr 14.75; cloth 19.25(not seen). JSL.

P [4]: " Originales titel Diver's Luck. Till svenska av C.H. Falkman."

553. -----1954, Ger edit

Clarence Benham | Perlentaucher | Ein Leben voll Gefahr | [rule] | Orell Füssli Verlag, Zürich [1954]

8°: 255, [1 blank]p; 40 photos on both sides 12 glossy pls bound-in. Blue, unfin cloth; gold sailboat on cover; spine title gold on black panel, gold bands. Col dj, diver photo on cover; resume, other publ bks. Te stained pale greenish-blue. 22.8 x 15.3 cm(9 x 6 in). Cut. JSL.

Cont: publ logo; tp; transl note; tab cont; ill ackn; fwd; text; blank p.

P [4]" "Aus dem Englischen übersetzt von Susanne Ullrich."

554. BENNETT, EDNA MAE(-1972)

Turquoise | and the | Indian | by | Edna Mae Bennett | [publ logo] Sage Books | Denver [publ is Alan Swallow; 1966]

8°: 152 p; 27 ill(part col) on one or both sides of 13 tip-in or bound-in f; sketch map; cross-sect. Bright turquoise cloth, black lett spine; col dj., resume, vita. 21.4 x 14 cm(8 1/2 x 5 1/2 in). Cut. $5.00. LC 66-25963. JSL.

Cont: 1/2tp; orn; tp; pub data; tab cont; ill list; ackn; sketch map & key; introd; text; append; biblio(p 142-9, 146 entries); index.

Broad examination of turquoises and use by American Indians, with brief remarks on mineralogy & economic geology, imitations and alterations, early history, Indian mines, important deposits, Indian lapidaries and techniques, contemporary jewelry, pawns, and synbolism & folklore. Appendix on several better known archeological sites in SW USA. Color pls are extremely simple sketches of typical jewelry pieces or artifacts. Useful bibliography with recent works included.

555. -----1970, rev edit, Chicago. Not seen: rev M O'Donoghue, *J Gemm*, 13, 5, 1973, p 186, "a first-class account."

556. BENNETT, EDNA MAE & BENNETT, JOHN F

Turquoise | Jewelry | of the | Indians | of the | Southwest | Edna Mae and John F. | Bennett [title dec with 4 cuts of Ind jewelry; Colorado Springs: Turquoise Books, 1973]

8°: 148, [4 blank]p; 56 photos, 103 col photos. Turquoise cloth, lacquered, silver title on cover; silver lett spine. Black & col dj; col photos(same as on tp) on cover; authors portr, vita. 28.1 x 21.7 cm(11 x 8 1/2 in). Cut. $15.00. Reprinted 1974. JSL.

Cont: tp; publ data; tab cont; ill lists; pref; ackn; gloss; introd; text; Zuni war chant; biblio(p 147-8, 26 entries); 2 blank f.

Survey of styles and specific types of silver jewelry made by the SW USA Indians; turquoise is the principal stone but coral and shell also appear. Text rambling, disorganized, topics taken up and dropped, then taken up again. On the whole, however, there is much useful information that was obtained by the authors at firsthand but it requires careful search of contents. Most space taken up by good quality photos. No index.

557. BENSAUDE, ALFREDO O diamante. *Revista de*

Sciencias Naturaes e Sociaes, Orgão Sociedade Carlos Ribeiro, Porto, 2, 8, 1893, p 159-84. Not seen: AD Gonsalves, *Bibliogr Brasil*, 1928, p 19.

558. BENSON, ELIZABETH POLK & COE, MICHAEL D

Handbook Of The | Robert Woods Bliss | Collection Of | Pre-Columbian Art | [taper rule] | Dumbarton Oaks Washington, D.C. | Trustees For Harvard University [1963]

8°: [blank] + xi, [5], 78 p; front glossy pl tip-in + 152 photos on [52] glossy f bound-in at end of text; 3 sketch maps. Pale gray, heavy charcoal paper wrap; black & gold lett cover & spine. 23 x 15.5 cm(9 x 6 1/8 in). Cut.

Cont: blank f; 1/2tp; pl; publ data; tab cont; fwd; introd; maps; cat; biblio(p 77, 10 entries); photo credits; pls tp; pls.

Historical note on the formation of the collection, its public exhibitions, and final resting place in a special building upon the Dumbarton Oaks grounds, Washington, D C, The three sketch maps correspond with the collection arrangement & catalog, ie, artifacts from the three broad regions of Mesoamerica, Costa Rica-Colombia, and Andean region. There are 425 items, the largest portion of jadeite objects and other hard and soft stones, many illustrated on the excellent plates. Other classes of artifacts include ceramics, metals, textiles.

BENSON, LESTER B, see COPELAND, L L, 1960, 1977

BENTINCK, C S, see CANNEGIETER, H

559. BEOBACHTUNGEN UND ENTDECKUNGEN AUS DER NATURKUNDE, von der Naturforschender Freunde zu Berlin, 5 vol, Berlin, 1786-94. Not seen: contains numerous articles on European gemstones, esp Russia, by J J Bindheim, C L Bose, U F B Brückmann, and others.

560. BERAN, THOMAS Assyrische Glyptik des 14.Jahrhunderts. *Zs f Assyriologie*, nf, 18, 1957, p 141-215. Not seen.

561. -----1958 Die babylonische Glyptik der Klassitenzeit. *Archiv f Orient- forschung*, 18, 1957-8, p 255-78. Not seen.

562. -----1967

Thomas Beran | Die Hethitische Glyptik | Von Boğazköy | I.Teil | Die Siegel Und Siegelabdrücke | Der Vor- Und Althethitischen Perioden | Und | Die Siegel Der Hethitischen Grosskönige | [publ logo] | Verlag Gebr. Mann · Berlin 1967

Facing title: "Boğazköy-Hattuša. Ergebnisse Der Ausgrabungen Des Deutschen Archäologischen Instituts Und Der Deutschen Orient-Gesellschaft, Herausgegeben Von Kurt Bittel, V. Die Hethitische Glyptik... " P [3]: "76. Wissenschaftliche Veröffentlichungen Der Deutschen Orient-gesellschaft."

4°: 92 p(first 2 p blank) + [14] bound-in f bearing 12 photo & sketch pls + 6 tip-in inserts(maps of site, 2 fold). Tan, natural finish cloth, brown lett cover & spine. Plastic dj. 35 x 24.75 cm(13 7/8 x 9 3/4 in). Cut. JSL.

Cont: blank f; ser tp; 1/2tp; tp; publ data; tab cont; fwd; introd; catalog; commentary; tabs, lists,, indexes, concordances; pls; inserts.

Seals and photos of impressions from Hittite site of Boğazköy, ca 150 km E of Ankara, Turkey.

BERDESINSKI, W, see SCHMETZER, K, et al

BERENDT, GEORGE (later GEORG)CARL(1790-1850)

B Berlin; MD pract in Danzig; dir Nat Hist Soc of Danzig.

563. -----1830

Die Insekten Im Bernstein | Ein Beitrag | Zur | Thiergeschichte Der Vorwelt. | [orn rule] | Erste Heft. | [double rule] | Seinem Geliebten Vater | Herrn | Dr. Nathanael Berendt | Am 8.März 1830 | Dem | Tage Seiner Fünfzigjährigen Jubelfeier | Gewidmet | Von | Dr. George Carl Berendt. | [tapered rule] | Danzig. | Aur Kosten Des Verfassers Und In Commission Der Nicolaischen Buchhandlung | In Berlin [1830]

4°: 38, [1]p. 22.6 x 19.4 cm(8 7/8 x 7 5/8 in). Cropped. Scudder, *Biblio Fossil Insects*, p 60, gives "pp.(2), 39." JSL.

Cont: tp; dedic (a sonnet in honor of Berendt Sr); text; closing remarks & correction.

Landmark scientific investigation of inclusions in amber, and according to Williamson, *Book of Amber*, p 133, Berendt "was the first able naturalist who closely investigated the plant and animal remains [in amber] ." The title is misleading inasmuch as nearly as much space is devoted to plant remains as to insects. Begins with a geological essay on the events which led to the creation of amber, the formations in which found, the character of the latter leading Berendt to conclude that the primeval amber forest was centered in the southeast Baltic Sea. On the basis of vegetable inclusions, he is also convinced that the original amber-producing tree belonged to the pine family, although fragments of broad leaves demonstrated that other tree species existed contemporaneously. Remarkably perceptive observations are made on the formation and consolidation of amber resin, as well as comments on specimens of amber containing frogs, lizards, and the like, which he declares to be falsifications without exception. The last part of the text treats insects and notes the types in detail. All of Berendt's work was based upon study of a personal collection of 1200 specimens, of which 750 contained insect inclusions. In closing, Berendt apologizes for the brevity of the treatise and the lack of copper plates but hopes, if time permits, to issue a second part with plates. No such second part was issued. Scudder, ibid, p 60, notes that "only pp 29-39 deal with the insects themselves, and the remarks are of a very general nature, but give the first published information concerning amber insects based on considerable collections. Hagen (*Bibl. ent.*, 1:42) records plates to a second part." (!).

564. -----1845-56

Die | im Bernstein | befindlichen | Organischen Reste | Der Vorwelt | gesammelt | in Verbindung mit Mehreren bearbeitet | und | herausgegeben | von | Dr. Georg Carl Berendt, | praktischem Arzte zu Danzig, | Königl. Sanitätsrathe, Direktor der naturforschenden Gesellschaft zu Danzig, Ehrenmitgliede des böhmischen Museums zu |... [4 more lines of mbrships] ... | [rule] | Erster[-Zweiter] Band. | I. Abtheilung: Der Bernstein und die in ihm befindlichen Pflanzenreste der Vorwelt. | II. Abtheilung: Die in Bernstein befindlichen Crustacean, Myriopoden, Arachniden | und Apteren der Vorwelt. | [quadruple rule] | Berlin, | In Commission der Nicolaischen Buchhandlung. | 1845]-1856]. | [rule] | Druck der Gerhardschen Officin in Danzig.

Vol I: Part I by H R Goeppert & G C Berendt; Part II Die im Bernstein... Crustaceen, Myripoden, Arachniden und Apteren... bearbeitet von C L Koch... und Dr G C Berendt. Vol II: Part 1 Die im Bernstein ... Hemipteren und Orthopteren der Vorwelt, bearbeitet von E F Germar... und Dr G C Berendt; Part II Die im Bernstein... Neuropteren der Vorwelt, bearbeitet von F J Pictet-Baraban... und Dr H Hagen. From LC 29-19147. Scudder, ibid, p 60. Not seen.

565. -----1866 Die Bernsteinablagerung und ihre Gewinnung. *Schriften d physik- ökon Ges zu Danzig*, 7, 1866, p 107-30. Not seen.

BERENDT, G C, see GERMAR, E F; KOCH, F C L

566. BERGE, VICTOR Victor Berge, Faran Är Mitt Liv En svensk pärlfiskares aventyr. Stockholm: Saxon & Lindströms Förlag. [1951]

8°: 207, [1]p; 22 photos, 3 fig; paper over bds, cloth spine, d.j. 22 x 15.5 cm(8 7/8 x 6 1/8 in). Incomplete examination. Pearling and other adventures in the South Seas.

567. BERGE, VICTOR & LANIER, HENRY WYSHAM

Pearl Diver | Adventuring Over and Under Southern Seas | By | Victor Berge And | Henry Wysham Lanier | [publ logo] | Illustrations By Stephen Haweis | Garden City, New York | Doubleday, Doran & Company, Inc. | 1930. [title in green and black]

8°: [2 blank], [14], 368, [2 blank]p; first section contains 9 f because the title leaf is tip-in; front pen-and-ink drawing; 11 similar large text drawings; 47 small sketches as ch orns. Black cloth, green lett & blind dec covers & spine. Pale green dec dj; dec endp. 22.7 x 15.5 cm (9 x 6 1/8 in). Fe, be uncut; te stained pale green. JSL.

Cont: blank f; 1/2tp; tp; publ data; dedic; tab cont; introd; statement; text in 2 bks, each with own tp; epilog; blank f.

Essentially a biography of Victor Berge by Lanier, written from interviews and some independent background research. Book one on Berge's early years, while the second book, and a considerably larger one, deals with his adventures in Australian and Dutch East Indian waters in a variety of occupations, among them, pearl diving. In the telling, much useful information is elucidated about pearling and pearls, also coral fishing. The popularity of this work is due partly to the exciting adventures and partly to the accuracy and authority of the statements.

568. -----1930, London edit

Pearl Diver |... | London | William Heinemann Ltd | 1930

8°: [2 blank], [14], 368 p; tp now integral; last blank f eliminated. Title reset. Dk greenish-blue cloth, pale lett & dec, endp similar. Dj. 21.7 x 13.5 cm(8 1/2 x 5 3/8 in). Ae cut. JSL.

569. -----1930, Stockholm edit

Pärlfiskaren | Äventyr Pa Och Under Soderhavet | Av | Victor Berge | Och | Henry Wysham Lanier | Översättning Av | Louis Renner | Andra Upplagan | [publ logo] | Stockholm | Albert Bonniers Förlag [1930]

8°: 323, [1 blank], [2], [2 blank]p; 23 text photos; 1 tip-in pl. Col wrap, pearl scene front cover; reviews back cover. 23.8 x 16.2 cm (9 3/8 x 6 3/8 in). Uncut. JSL.

570. -----1931?, reprint first edit

Pearl Diver | ... | Garden City Publishing Company, Inc. | Garden City, New York [nd]

8°: [14], 368, [2]p. Front matter rearranged; no 1/2tp; another ill used for front; title in black. Smaller; 20.7 x 14 cm(8 1/8 x 5 1/2 in). Te stained pale green; other edges uncut. JSL.

571. -----1931, Junior Books edit

The Windmill Books | [rule] | Pearl Diver | By | Victor Berge And | Henry Wysham Lanier | Decorations by Stephen Haweis | Jacket and Frontispiece by | Nicolas F. Riley | [orn] | Junior Books | [rule] | Doubleday, Doran & Company, Inc. | Garden City, New York | 1931

8°: [14], 352, [2]p; same ill; ch entitled "Island Love" removed with its ill. Pale green cloth, blue lett cover & spine; plain endp. Col dj. 19.7 x 13.5 cm(7 3/4 x 5 1/4 in). Te stained green; others uncut.

572. -----1932, Copenhagen

Perlfiskeren | Paa Eventyr I Sydhavet | Af | Victor Berge Og | Henry Wysham Lanier | Paa Dansk Ved Sigvard Lund | [orn] | [double rule] | Gyldendalske Boghandel - Nordisk | Forlag - København - MCMXXXII

8°: 212, [1], [1 blank], [2]; tip-in glossy front photo of Berge; 28 photos on 7 tip-in pls. Pale blue wrap, darker blue lett; col dj. 25.7 x 18.5 cm(10 1/8 x 7 1/4 in). Uncut. 3,000 copies. JSL.

573. -----1937, Young Moderns edit

Young Moderns Books | [rule] | Pearl Diver | By | Victor Berge And | Henry Wysham Lanier | [series logo] | Junior Books | [rule] | Doubleday, Doran & Company, Inc. | Garden City, New York | 1937

8°: [14], 352, [2]p. Pale blue cloth. 19.8 x 13.5 cm(7 3/4 x 5 1/4 in). Fe & be uncut. Omits ch "Island Love."

574. -----1937, same, reprinted

Young Moderns Bookshelf | rule] | Pearl Diver | By | Victor Berge & | Henry Wysham Lanier | [series logo] | [rule] | The Sun Dial Press | Garden City, New York

Dk blue cloth, greenish blue lett & dec on spine only; publ data changed; te stained pale blue, other edges uncut; otherwise identical.

575. -----1951, Oslo

Victor Berge Og Henry Wysham Lanier | Perledykker | Opplevelser på sjø og havbunn | Oversatt av | Thorwald Thorgersen | [publ logo] | [double rule] | Gyldendal Norsk Forlag | Oslo 1951

8°: 190, [1], [1 blank]p; pale gray paper over bds, dec; cloth spine; col dj. 18.7 x 11.5 cm(7 3/8 x 4 5/8 in). Te stained pale red.

BERGER-HAAS, CHARLOTTE, see OPIFICIUS, RUTH, et al

576. BERGHEIMER, H Die Schleifhärte des Diamanten und seine Struktur. *N Jb Min*, Abh, B-Bd 74, Abt A, 1938, p 318-32, 5 fig. Cutting hardnesses of diamond are related to crystal structure, hence differ according to crystallographic direction: octahedral face hardest, cube and dodecahedral faces less, etc. Rules for directional cutting given based on practical experience in Idar-Oberstein, Germany trade schools.

BERGMAN, TORBERN OLOF(1735-1784)

Swed chemist, mineralogist; b Uppsala, stud at univ there, becoming prof math & nat hist in 1761; succeeded Wallerius as prof chem in 1766 or 1767; noted esp for chem analyses of ores, minerals, and gemstones. *Biogr Univ*, 4, p 258-61(by Biot); DSB 2, p 4-8; recently, R S Mitchell, *R & M*, 54, 2, 1979, p 73-4, portr.

577. -----1779-90 Opuscula physica et chemica. 6 vols, various places, 1779-1790. These volumes contained his researches and analyses. Not seen.

578. ------1780-85, Fr transl. Opuscules chymiques et physiques. Recueillés, revus et augmentes par lui-même. Trad. par G. de Morveau. 2 v. Dijon, Frantin, 1780-85. 8f, XXXI, 446 pp, 1 f; 2 f, XVI, 525 pp, 1 f, 4 engrav. fold. pls., large fold. synoptic table(analyses of waters). Not seen: from a booksellers' catalog of 1973.

579. -----1784, Engl transl

Physical And Chemical | Essays; | Translated From The Original Latin Of | Sir Torbern Bergman, | Knight Of The Order Of Wasa, Professor Of | Chemistry At Upsal, &c. &c. &c. | By Edward Cullen, M.D. | Fellow Of The Royal College Of Physicians | At Dublin. | To Which Are Added | Notes And Illustrations. | By The Translator. | [taper rules] | Vol. II. | [taper rule] | London: | Printed For J. Murray, N° 32, Fleet Street; | Balfour And Co. W. Gordon, And J. Dickson, | At Edinburgh; | And L. White, At Dublin. M.DCC.LXXXIV.

8°: xv, 518 p; A-Kk^{8}, Ll^{3}; 2 fold engrav pls. 20.8 x 12.8 cm(8 1/4 x 5 in). Cut.

Cont: tp; quot; dedic; tab cont; blank p; text; pls.

Dissertation XIV, p 57-74 on hydrophane opal, also chalcedony, flint, steatite; gives history of the names lapis mutabilis, oculus mundi, and hydrophane; Bergman's opal specimens came from Eibenstock; experiments determined character of hydrophane and its ability to absorb water and become transparent. Diss XV, p 75-119, on the "earth of Gems," describes analyses of emerald, sapphire, topaz, hyacinth and ruby; "alum earth," i e, alumina, found in each but also "lime" in the hyacinth, which probably meant it was grossular. Diamond defied analysis. Other experiments performed on garnet, schorl, zeolite. Diss XVI, p 120-33, analyses of tourmalines from Ceylon, presented to C P Thunberg(1743-1828), the noted botanist who had collected them there; notes remarkable dichroism, variations in properties, crystal habits, etc, with major constituents of "argillaceous earth," or alumina, "siliceous earth," or silica, and "calcareous earth," or lime, and iron.

580. -----1787, Ital transl. Opusculi chimici e fisici tradotti in italiano con aggiunte e note. 2 v. Firenze, Gius.Tofani, 1787. 8°: 1150 p, 6 engrav pls, 4 tabs. Contains 18 essays, among which are: 1 Della preparazione dell'allume, 2 Della terra delle gemme, 3 De'componenti della turmalina, 4 Della proprieta eletriche dell turmalina. Not seen: data from G F Kunz Coll, GS 34-202 & a bookseller's catalog of 1973.

581. -----1780 ?, separate of above?

Della Terra | Delle Gemme | Dissertazione. [np, nd]

8°: 109, [1] p; pale gray wrap; 21.5 x 14.3 cm(8 1/2 x 5 5/8 in). Uncut. A somewhat smaller copy is in the USGS Kunz Coll as a separate; JSL.

Cont: title; dedic; 8 chs; index.

Separate of the first Italian edition with notes and additions by Giuseppe Tofani; dedicated by translator to Giovanni Eulero, secretary of the St Petersburg Imperial Academy of Science, and taken from the second volume of the Opusculi noted above. According to Zeitlin & Verbrugge, who catalogued this work, G de Melzi's *Dizionario... scrittori italiani* 3, p 151, notes that Tofani is only the printer and editor but Giovanni Valentini Fabbroni is the translator as well as the author of the notes and additions; A Mieli, *Enciclopedia italiana*, 6, p 170, "Giuseppe Tofani is a pseudonym for Felice Fontana(sic) ." Partington, 3, p 182-4, lists various translations of the Opuscula, but not the Italian; for a discussion of Bergman's paper on "earths," see p 191.

582. -----1788, Engl edit reprinted, reset

Physical And Chemical | Essays: | Translated From The Original Latin Of | Sir Torbern Bergman, | Knight Of The Order Of Wasa, Professor Of | ... | By The Translator. | [rule] | Vol. II. | [rule] | London: | Printed For J.Murray, N° 32. Fleet-Street; | And William Creech, Edinburgh. | [rule] | MDCCLXXXVIII.

8°: xvii, [1 blank], 529, [1 blank]p; a^{8}, b, A-Kk^{8}; lambda; 2 fold engrav pls bound-in at end of vol. P size same. Ward & Carozzi, 176; JSL. Contents same.

583. -----1788-1790, 2nd Latin edit

Torberni Bergman |... [5 lines of honors]... | Opvscvla | Physica Et Chemica. | Edito Nova Emendatior. | [rule] | Vol.I[-VI]. | Cum Tabulis Aeneis. | [rule] | Cvm Privilegio S.Elect. Saxoniae. | [rule] | Lipsiae | In Bibliopolio I.G. Mülleriano | CIↃ IↃ CCLXXXVIII [-MDCCLXXXX].

8°: XXIV, 388 p,; 2 engrav fold pls; [8], 510 p, 2 engrav fold pls; [8], 488 p, 3 engrav fold pls; [10], 392, [6]p; [8], 421, [1], [2 blank pl; [8], 214, [92]p, 2 engrav fold pls. 19.5 x 11.4 cm(7 3/4 x 4 1/2 in). Cropped. BM(NH) Min Libr.

Vol II contains the treatise on silica, p 26-53, hydrophane, p 54-71, earth of gems, p 72-117, and earth of tourmaline, p 118-32.

BERGSTEN, L J, see MACFALL, R P, 1980

584. BERLIN. KÖNIGLICHEN MUSEEN

Verzeichniss | Der | Geschnittenen Steine | In Dem | Königlichen Museum Der Alterthümer | Zu Berlin. | [orn] | Berlin, Bei C.G.Lüderitz. | [double rule] | Gedruckt In Der Druckerei Der Königl. Akademie | Der Wissenschaften. | 1827.

8°: VIII, 238 p. 19.9 x 12 cm(7 7/8 x 4 3/4 in). Cut. USGS Kunz Coll, GS 34-289. Cont: tp; part tp; fwd; text.

Index to engraved gems in the museum, specifically those in the Stosch Collection.

BERMAN, H, see KRAUS, E H, et al, 1942, 1946.

585. BERMAN, R

Physical Properties | Of Diamond | Edited by | R.Berman | Clarendon Press · Oxford | 1965

8°: xii, 443, [1 blank] p; 286 fig; 2 portraits, 40 tabs. Dk blue cloth, gold lett, rules & univ logo on spine. Yellow dj, resume, other publ bks. 23.5 x 15.6 cm(9 1/4 x 6 1/8 in). Cut. 75s(UK only). JSL.

Cont: 1/2tp; tp; portrs; fwd; edit pref; ackn; tab cont; 15 chs; biblio (p 423-36, ca 200 entries); index; blank p.

Groups of articles, each forming a topical chapter based on recent determinations of physical properties. General statement of problem, x-ray diffraction work, topography of crystals, electron microscopy, optical studies, fracture & cleavage, abrasion, electronic structure, paramagnestism, conductivity electrical & heat, damage to lattice from radiation, all with much supporting data, diagrams, photos, and numerous references to recent literature.

586. BERNATT, STANISLAW Bursztynowe skarby Baltyku. *Morze*, 10, 1955, 23 p., ill; not seen. On Baltic amber.

BERNAUER, FERDINAND(1892-1945)

B Menzingen, Ger; educ Heidelberg U; assoc prof mineralogy & petrogr Tech Hochschule Berlin 1828-.

587. -----1926 Die sog. Smaragddrillinge von Muzo und ihre optischen Anomalien. *N Jb Min*, B-Bd 54, Abt A, 1926, p 205-42, Pl XII, 12 fig. JSL. Detailed chem-optical investigation of the so-called "trilling" emerald crystals from Muzo, now called "trapiche" emeralds, and characterized by symmetrical segmental overgrowths upon a central prismatic core; text figures of structures, arrangement of sections, zoning, taper, etc. First competent study.

588. -----1933, Sp transl Las llamadas maclas multiples de esmeralda de Muzo y sus anomalias opticas. *Informe No 757 Instituto Geológico Nacional*, republ in *Compilación de los estudios geológicos oficiales en Colombia*, Bogotá, 1, 1933, p 199-221, Fig 26-39. JSL.

589. BERNEWITZ, M W von & HESS, FRANK Cutting and polishing stones. *US Bu Mines Info Circ* IC 7107, Wash, DC, Apr 1940. Edgestapled, [2], 23, [3 blank]p; 25 fig(photos & line drawings) on heavier paper inserts and not included in pag. 26.7 x 20.3 cm(10 1/2 x 8 in). Cut. Free. JSL. Brief characteristics architectural/monumental stones, sectioning, lapping, etc., with specific comments on polishing of the various kinds; also sections on governmental agency inspection of samples, amateur gem cutting, how the Chinese cut and polish jade; school instruction in lapidary arts.

590. BERNSTEIN, BIRCH To-morrow is another day. Cape Town, 1951. 8°: 420 p; cloth. Ch 20 "Diamonds and Dross," also many references to Barney Barnato, Louis Cohen and Robinson. Not seen; from a bookseller's catalog, 1958.

591. BERNSTEIN-FORSCHUNGEN, K Andrée edit

Bernstein- | Forschungen | (Amber Studies) | Herausgegeben von | Dr.Phil.K.Andrée | o.ö. Professor, Direktor des Geologisch-paläontologischen Instituts | und der Bernsteinsammlung der Albertus-Universität | Zu Königsberg i. Pr. | Heft 1[-4] | Die "Bernstein-Forschungen" erschienen in zwangloser | Reihenfolge. Die Hefte haben verschiedenen Umfang. Gross-Oktav | Bei Subskription auf mindestens 5 Hefte | ermässigt sich der Hefte um 20% | [publ logo] | Berlin und Leipzig 1929[-39] | Walter de Gruyter & Co. | vormals G.J.Göschen'sche Verlagshandlung - J.Guttentag, Verlagsbuchhandlung | Georg Reimer - Karl J. Trübner - Veit & Comp.

Entire title enclosed in double-rule frame; blue ink. Above from paper wrap cover; similar information appears on first page of each vol. Only 4 vol were published. JSL. LC 49-31815.

H 1: 8°: XXXII, 167, [1 blank]p; 79 ill on 8 tip-in pls(68 are photos). Pale brown wrap. 26 x 18 cm(10 1/8 x 7 in). Uncut. RM 15.

Cont: K Andrée, "Bernsteinforschung einst und jetzt," p I-XXXII; E Wasmann, "Die Paussiden des baltischen Bernsteins und die Stammesgeschichte der Paussiden," p 1-110; H Priesner, "Bernstein-Thysanopteren II," p 111-38; "Referate und Mitteilungen," p 139-67; blank p; 8 pls. The last section contains reviews of articles & books pertaining to amber.

H 2, 1931: 202 p; ill in articles below. Uniform.

Cont: C P Alexander, "Crane-flies of the Baltic Amber(Diptera)," p 1-135, 168 sketches of insects, one being placed on one side of tip-in pl; biblio 44 entries; G Salt,"Three Bees from Baltic Amber," p 136-47, 3 fig, 10 refs; M Sellnick, "Milben im Bernstein," p 148-80, 39 fig, 4 ref; "Ref u Mitt," p 181-202, abstracts recent lit & reviews on amber trade, amber mining in Burma, etc.

H 3, 1932: 241[1 blank]p.

Cont: obit of Andrée, p l; E Wasmann, "Eine ameisenmordende Gastwanze (*Proptilocerus dolosus* n.g.n.sp.) im baltischen Bernstein," pl-3, 1 pl; C T Brues, "The Parasitic Hymenoptera of the Baltic Amber," p 4-178, 88 fig on 13 pls includ in pag but unnumb; "Ref u Mitt," p 179- 241.

H 4, 1939, 132 p; wrap in black ink; final number.

Cont: R Keilbach,"Neue Funde des Strepsipterons Mengea tertiaria Menge im baltischen Bernstein," p 1-7, 15 fig in text and on 2 tip-in pls, one is rotograv with tissue, 10 ref; F M Carpenter & F M Hull, "The Fossil Pipunculidae," p 8-17, 9 fig, one on a tip-in pl, 8 ref; E Uhmann, "Hispinen aus baltischen Bernstein," p 18-22, 8 fig, 2 on tip-in pls; K Schubert, "Mikroskopische Untersuchung pflanzlicher Einschlüsse des Bernsteins.I.", p 23-44, 33 photos on 6 tip-in pls, 43 ref; K Andrée, "Steinzeitliche Bernstein-Anhänger mit Ritz-Zeichnungen von Nordlichtern" p 45-7, 2 ill on tip-in pl; K Andrée, "Über neue Funde neolithischer Bernsteinartifakte Schwarzorter Stils and der Ostseekuste Kurlands und ihre Bedeutung für die Frage der Entstehung der Schwarzorter Bernstein-lagerstätte," p 48-51, 1 tip-in pl, 5 refs; K Andrée, "Über Inklusen im allgemeinen und über Bernsteininklusen und Bernsteininklusenfälschungen im besonderen," p 52-77, 42 ref; "Ref u Mitt," p 78-132. See also ANDRÉE, K

LES MERVEILLES
DES INDES ORIENTALES ET OCCIDENTALES,
OV

Nouueau Traitté des Pierres precieuſes & Perles, contenant leur vraye nature, dureté, couleurs & vertus: Chacune placée ſelon ſon ordre & degré, ſuiuant la cognoiſſance des Marchands Orpheures. Auquel eſt adjouſté vne petite Table fort exacte, pour connoiſtre en vn inſtant à quel tiltre les Marchands Orpheures de Paris, & les autres dans toutes les principalles Villes preſque de toute l'Europe, trauaillent l'Or & l'Argent.

DEDIE' A MADEMOISELLE.

Par ROBERT DE BERQVEN Marchand Orpheure à Paris.

A PARIS.

DE L'Imprimerie de C. LAMBIN ruë vieille Draperie, proche le Palais, à l'Image Sainct Martin.

LES Exemplaires ſe debitent chez l'Auteur, en la ruë des Lauandieres en la Maiſon des Marchands Orpheures.

M. DC. LXI.

AVEC PRIVILEGE DV ROY.

592. A very early more or less complete treatise on gemstones among other mineral riches by a jeweler of Paris; titlepage of the 1661 first edition

BERQUEN, ROBERT DE (fl 1615-1661)

Jeweler, goldsmith of Paris; *Biogr Univ*, 4, p 536 states he is the son of the so-called "inventor" of diamond bruting & polishing in Europe, namely, Louis De Berquen who flourished in the 15th century, but whose name is given by Lenzen, *History of Diamond Production*, p 72-3, as Lodewyk van Berken, a citizen of Bruges, Belgium. Lenzen discredits the latter as the inventor of the processes mentioned, and is not able to substantiate the claim of Robert De Berquen that he is descended from van Berken.

592. -----1661

Les Merveilles | Des Indes Orientales | Et Occidentales, | Ov | Nouueau Traitté des Pierres precieuses & Perles, contenant | leur vraye nature, dureté, couleurs & vertus: Chacune | placée selon son ordre & degré, suiuant la cognoissance | des Marchands Orpheures. Auquel est adjousté vne pe- | tite Table fort exacte, pour connoistre en vn instant à | quel tiltre les Marchands Orpheures de Paris, & les au- | tres dans toutes les principalles Villes presque de toute | l'Europe, trauaillent l'Or & l'Argent. | Dedié A Mademoiselle. | Par Robert De Berqven Marchand Orpheure à Paris. | [orn] | A Paris. | De L'Imprimerie de C. Lambin ruë vieille Draperie, | proche le Palais, a l'Image Sainct Martin. | Les Exemplaires se debitent chez l'Auteur, en la ruë des | Lauandieres en la Maison des Marchands Orpheures. | [rule] | M.DC.LXI. | Avec Privilege Dv Roy.

4°: [13], [1 blank], 112[recte 114]p + [1]f supplied(acrostic sonnet in ms recto, verso blank); pi^2, $*^4$ + [1]f unsigned(sonnets) + A-I^4, K^5(see note), L-O^4 + [1]f ms leaf; engrav portr pl bound-in after titlef(Anne Marie Louise d'Orleans); woodcut init, orn. Sig K contains 5 leaves, of which the 4th is supplied and unpaged but text continuous. My copy: 23.4 x 17 cm(9 1/4 x 6 3/4 in). Cut. LC 8-30346.

Cont: tp; pl; dedic; tab cont; privilege; sonnets(reverse blank); 16 chs; sonnet(p 100); tab of finesses of gold & silver; Ronsard's poem on gold; advice to apprentices; ms acrostic sonnet, the line initials spelling "Sur L'Orfevrerie" (not preeent in all copies).

Very early, and important treatise on gemstones, gold & silver, but with by far most space devoted to gemstones. The first chapter attempts to reconcile differing views of various writers, as cited by Berquen, on the origin of gemstones and precious metals, with following chapters taking up the principal gemstones, and some minor ones, as diamond, sapphire, topaz, ruby, spinel, emerald, amethyst, aquamarine, hyacinth, opal, chrysolite, iris, vermeille, garnets, carnelian, turquoise, quartz varieties, pearl, coral and amber, and lastly, a chapter on gold and silver. Little rhyme or reason is apparent in the way the material is presented, and occasionally some strange pairs appear as amethyst and aquamarine being discussed together in the same chapter. Despite claims to expertise, Berquen appears to have taken most of his information from the sources cited in the text and little can be identified that was not already general knowledge at the time. Berquen appeared to be most familiar with diamonds and pearls, but increasingly unfamiliar with the uncommon or rare gemstones, whose descriptions, one suspects, were mere paraphrases of other text excerpts. A footnote to the table of contents mentions only the table of precious metal finenesses as being appended to the text and nothing about the poem which comes immediately after, nor the advice to apprentices. Sabin 4957, cites the work for its material on the West Indies but actually there is very little information on same in this first edition. Another issue of this edition is described in JCB 2, 51-52; see also Brunet, 6, 262.

593. -----1669, 2nd edit

Les Merveilles | Des Indes Orientales | Et Occidentales | Ov | nouueau Traitté des Pierres precieuses & Perles, contenant | leur vraye nature, dureté, couleurs & vertus: Chacune | placée selon son ordre & degré, suiuant la cognoissance | des Marchands Orfevres, Le tiltre de l'Or & de l'Argent, | Auec augmentation à plusiers Chapitres, Les Raisons | contre les chercheurs de la Pierres Philosophale & souf- | fleurs d'Alquemie, Et de deux autres Chapitres du prix | des Diamans, & des Perles. | Dedié A Mademoiselle | Par Robert De Berqven Marchand Orphévre à Paris. | [orn] | A Paris | De L'Imprimerie de Christophe Lambin ruë petit | Pont, à l'Image Sainct Martin. | [rule] | M.DC.LXIX. | Avec Privilege Dv Roy.

4°: [8], 152 p; pi^4, A-T^4 engrav portr of A M L d'Orleans(some copies issued without this portr); woodcut int, orn. My copy: 21.3 x 16 cm(8 3/8 x 6 1/4 in). Cut. Dewalque 26; JSL. Agassiz I, 266.

Cont: tp; pl; dedic; 18 chs; sonnet; tab of finesses; Ronsard's poem; adv to apprentices; tab cont; priv & colophon.

Entirely reset, with additions to some chapters and now using formerly available white space to increase text without too much increase in size. The chapter on pearl is augmented with an appendix which recounts the history of Spanish conquest in the New World and additionally gives remarks on pearl fisheries, natural history, and production. This material runs from p 74-90(misnum "70") and is the information referred to by Sabin 4957. The chapter on gold and other metals, is also enlarged, p 111-20, by remarks on the merits of gold and other metals, and by the comments of the celebrated alchemist Nicolas Flamel (d 1418) on the philosopher's stone and alchemical attempts to transmute metals (see Ferguson, *Bibl Chem 1*, p 279-81 for further information on Flamel). New chapters comprise Ch 17, on the pricing of diamonds according to size and quality, and Ch 18 on pricing of pearls. In terms of substance, this edition is considerably superior to the first; both are rare.

594. BERRANGÉ, J P & JOBBINS, E A

Report No.35 | Institute of Geological Sciences | The Geology, Gemmology, | Mining Methods and Economic Potential | of the Pailin Ruby and | Sapphire Gem-Field, Khmer Republic | J.P.Berrangé E.A. Jobbins | Photogeological Unit Petrographical Department | Overseas Division | 154, Clerkenwell Road | London EClR 5DU | 1976

Cementb: iv, 32 p; 7 fig(map), 2 tab, 10 photo pls; pale blue print wrap. 29.3 x 20.9 cm(11 1/2 x 8 1/4 in). Cut. With 3 fold col geol maps in accordion-pocket of a pale blue, stiff paper portfolio. Dk blue cloth spine, white inner hinge, white tie-tapes. overall ca 31.7 x 24 cm(12 1/2 x 9 3/8 in). Pale gray title sheet pasted to cover of portfolio. JSL.

Geography of the region, local geology, descriptions of the gem deposits and mineralogy of same, mining & recovery methods, administration and its problems, prospecting, possibilities of mechanization, lapidary treatment, marketing, and training of marketing personnel. Illustrations include geological cross-sections & maps, photographs of deposits and mining activities. The gemstones originate in basaltic rocks but are recovered mainly from weathered material.

BERRANGÉ, J P, see JOBBINS, E A

595. BERRINGTON, M D

Stones Of | Fire | A Woman's Experiences | in Search of Opal | M.D. Berrington | Robertson & Mullens Ltd. | Melbourne [1958]

8°: ix, [1 blank], 189, [1 blank]p; 8 glossy photo pls tip-in or bound-in, each with caption on back; one is front portr of author. Tan cloth, black lett spine; col dj(scene of opal field); resume, advert. 21.1 x 13.5 cm(8 3/8 x 5 1/4 in). Cut. 25s. LC 59-26779. JSL.

Cont: 1/2tp; pl; tp; publ data; dedic; tab cont; ill list; text; blank p.

Experiences of a Londoner searching for opal in the Coober Pedy field of South Australia. Interestingly told with much factual material and without much of the usual embroidery calculated to make exciting reading when in fact there is none. The photos are scenes, dwellings, and persons connected with the opal mining industry. P V Wake, Opal Men, p [ix] notes that the value of this book is marred "because, for some undisclosed reason, the people mentioned have been given pseudonyms." Perhaps due to a small printing, this book is quite scarce.

596. BERRY, BURTON Y

A Selection Of Ancient Gems From The Collection Of Burton Y. Berry | On Indefinite Loan From Burton Y. Berry

Title spread over two pages; the above is recto, the below is verso:

Indiana University Art Museum Publication Number 5 / 1965 | Copyright | © Indiana University Art Museum, Bloomington, Indiana 1965

4°: [4], 67, [2], [3 blank]p; blind, embossed intaglio on 1/2tp; 112 photos of gem impressions, each with actual size outline drawing. 29.3 x 14 cm(11 1/2 x 5 1/2 in). Cut. 100 lb paper stock. Cream, flecked natural finish cloth, gold cover title. Also in gray-blue wrap, cover title. JSL.

Cont: 1/2tp; tps; museum staff list; tab cont; introd by Berry; catalog; abbrev biblio(p [68], 10 entries); print data; 3 blank p.

The introduction is an appreciation of engraved gems commencing with the story of Polycrates' engraved emerald ring, and notes that "the stones reproduced here range in time from the seventeenth century before Christ through the eighteenth century after Christ." All are intaglios, mostly cryptocrystalline quartzes, and are arranged according to periods & cultures, and show gem images with full-size outlines recto, with descriptions, sizes, etc. Handsome catalog; fine illustrations in an unusual tall format.

597. BERRY, EDWARD W The Baltic amber deposits. *Scientific Monthly*, 24, 1927, p 268-78, 3 fig. General remarks on natural & cultural history, the geology of the deposits in the light of recent investigations, and concludes that the deposits were laid down either in later Oligocene or early Miocene, but certainly not Eocene. Rev K.Andrée, *Bernstein Forsch* 3, 1933, p 180.

598. BERSCH, WILHELM

Mit | Schlägel und Eisen [underlined]. | Eine Schilderung | des | Bergbaus und seiner technischen Hilfsmittel. | Von | Dr. Wilhelm Bersch. | Mit 26 Carton-Vollbildern und 270 Abbildungen im Text. | [publ logo] | Wien. Pest. Leipzig. | A. Hartleben's Verlag | 1898. | (Alle Rechte vorbehalten.)

8°: VIII, 800 p; woodcut front title showing gnome pushing ore cart out of mine(13 similar text titles for chapter headpieces); 26 fullp woodcuts & photos; 370 text woodcuts & photos. Orig binding not seen; my copy 22.8 x 16.7 cm(9 x 6 5/8 in). Cropped. JSL,

Cont: 1/2tp; front tp; tp; publ data; fwd; tab cont; 13 chs; gen index; ill index; pls index; biblio(p 800, 32 entries).

Fascinating encyclopedic work on underground treasures and the means by which they are mined. There are chapters on the geological history of the earth, mines and mine installations, technical aids in mining, the miner and his life, ores and their treatment, the noble metals, salines, fossil fuels, oil, asphalt, gemstones, and economically important rocks. The gemstones chapter, p 709-54, contains its own woodcut illustrations and a woodcut plate of famous diamonds, with most space devoted to the diamond, its mining, processing, etc, also remarks on famous diamonds. Shorter sections deal with other gemstones.

599. BERTALAN, ALAJOS

A | Drágakövek | Az Ó-, Közép- És Ujkorban. | A Müvelt Közönség, | de Föleg | Tanitványi Számára | Több Kutfö Nyomán | Irta | Bertalan Alajos, | fögymnasiumi tanár. | (2 Könyomatu Táblával.) | [orn rule] | Nagy-Kanizsa, | Wajdits József Gyorssajtónymása. | 1879.

8°; 84 p; 2 litho pls at end. Tan wrap, title on cover. 25.9 x 16.8 cm(10 1/4 x 6 5/8 in). Uncut. USGS Kunz Coll; GS 34-402.

Cont: tp; text; pls.

"Precious stones of ancient, medieval and modern times for public culture but chiefly for Students, taken from many sources, and selected by Bertalan Alajos." Remarks on early history of gemstones, gems in the Bible, properties, descriptions (much space devoted to the diamond), several pages on the opal(p 65-72) inasmuch as opal was then mined in Hungary. The plates of famous diamonds are reproduced from Barbot, *Traité Complet*, 1884.

BERTHELOT, PIERRE EUGÈNE MARCELLIN (1827-1907)

Brilliant Fr chem & politician; noted for experimental researches in mechanics, chemical synthesis, thermochem; PhD Coll of Fr 1854; prof org chem 1865; same, École Sup Pharmacie 1859; various ministerial posts Fr govt; prolific writer."Berthelot's work is astonishing in its volume, originality and importance" Partington, 4, p 465-77; Duveen p 73; Farber, *Great Chemists*, p 675-85; Pogg 3, 115-9; DSB 2, p 63-72.

600. -----1893

Histoire Des Sciences | [rule] | La Chimie Âu Moyen Âge | Ouvrage Publié | Sous Les Auspices Du Ministère De L'Instruction Publique | Par M. Berthelot | Sénateur Perpétuel De L'Académie Des Sciences | [rule] | Tome Premier[-III] | Essai Sur La Transmission De La Science Antique | Au Moyen Âge | [rule] | Doctrines Et Pratiques Chimiques | [rule] | Traditions Techniques Et Traductions Arabico-Latines | Avec Publication Nouvelle Du Liber Ignium De Marcus Graecus | Et Impression Originale Du Liber Sacerdotum | Vingt-Cinq Figures D'Appareils, Table Analytique Et Index | [publ logo] | Paris | Imprimerie Nationale | [rule] | M DCCC XCIII

In 3 volumes described separately.

I:4°: [2] blank], [5], [1 blank], VIII, 453, [3 blank]p; 26 fig. 27.8 x 22.2 cm(10 7/8 x 8 3/4 in), Cut.

Cont: blank f; ser tp; other works by B; tp; tab of divisions; pref; general note; text in 2 parts; append; addits & correct; tab cont; index; 3 blank p.

II: with Rubens Duval

Histoire Des Sciences |... | Tome II | L'Alchemie Syriaque | Comprenant | Une Introduction Et Plusiers Traités D'Alchemie Syriaques Et Arabes | D'Après Les Manuscrits Du British Museum Et De Cambridge | Texte Et Traduction | Avec Notes, Commentaires, Reproduction Des Signes Et Des Figures D'Appareils, | Table Analytique Et Index | Avec La Collaboration | De M. Rubens Duval | Membre De La Société Asiatique | [publ logo] | Paris | Imprimerie Nationale | [rule] | M DCCC XCIII

4°: [2 blank], [5], [1 blankl, XLVIII, 408, [2 blank]p; text fig.

Cont: blank f; ser tp; other works of BF tp; tab cont; introd; 7 parts text; addit & correct; tab cont; index; blank f.

III: with O Houdas

Histoire Des Sciences |... | Tome III | L'Alchemie Arabe | Comprenant | Une Introduction Historique Et Les Traités De Cratès, D'El-Habib, | D'Ostanès Et De Djaber | Tirés Des Manuscrits De Paris Et De Leyde | Texte Et Traduction | Notes, Figures, Table Analytique Et Index | Avec La Collaboration | De M. O Houdas | Professeur À L'École Des Langues Orientales Vivantes | [publ logo] | Paris | Imprimerie Nationale | [rule] | M DCCC XCIII

4°: [2 blank], [5], [1 blank], 255, [1 blank]p + 106 f numbered in Arabic + [1 blank]f.

Cont: blank f; ser tp; other works by B; tp; tab of divisions; note; 6 text parts; addit & correct; tab cont; index; blank p; Arabic MS reproduced; blank f.

The above work is representative of Berthelot's researches into the beginnings of chemistry and while it is frequently referred to as being useful to the student of mineralogy or gemology, it actually contains only scattered references to gemstones, of which several are noted as follows. Vol II, p 15-6, the "Twelve [magical] Stones," taken from a Syrian alchemical MS; also various recipes utilizing pearl, zircon, rock crystal, etc, for medicinal purposes, p 171-6. There are other brief mentions of gemstones on p 322, 329, and in Vol III, p 116-9, on p 153-4, an extract from the Kitâb El Foçoul.

BERTRAND, ÉLIE (1712-1755)

Swiss naturalist, geologist; pastor Berne 1744-; mbr several acads; founder Econ Soc Verdun; publ geol, moral, religious treatises. *Biogr Univ* 4, p 377.

601. -----1763

Dictionnaire | Universel | Des | Fossiles propres, | Et Des | Fossiles Accidentels, | Contenant Une Description | Des Terres, des sables, des sels, des soufres, des bitu-| mes, des pierres simples & composées, communes & | prétieuses, transparentes & opaques, amorphe & | figurées, des minéraux, des métaux, des pétrifi- | cations du règne animal, & du règne végétal | &c. avec des recherches sur la formation | de ces fossiles, sur leur origine, | leurs usages &c. | Par Mr. E.Bertrand, | Prèmier Pasteur de l'Eglise Françoise de Berne, Membre des | Acad. de Berlin, de Goettingue, de Stockholm, de Flo- | rence, de Leipsic, de Mayence, de Bavière, de | Lyon, de Nanci, de Bâle, de la Société | Oeconomique de Berne, &c. | Tome Premier[-Second]: | [orn] | A La Haye, | Chez [in curved brackets to right:] Pierre Gosse Junior, | Et | Daniel Pinet. | [and below:] M.DCC.LXIII.

The Hague, 1763; titles in red & black; usually bound together.

I.: 8°: [4], XXXIJ, 284 p; 2 f unsigned, $**^8$, A-R^8 S^6; II.: [4], 256 p; 2 f unsigned, A-Q^8. 19.6 x 12.6 cm(7 3/4 x 5 in; cropped. Engrav headpc(coat-of-arms, King of Prussia). Ward & Carozzi, 193; Dewalque, 27;JSL.

Cont: 1/2tp; tp; dedic; fwd; text; vol 2 with 1/2 tp; tp; text.

Comprehensive encyclopedia of minerals, fossils, ores, stones, etc and with numerous entries for gemstones, with brief definitions and with references from which information derived; commonly extracts are taken from such authorities and their statements compared to those of others. Valuable for its indications of contemporary knowledge.

602. -----1763, Avignon Dictionnaire Universel... Par mr. E. Bertrand... Avignon, L. Chambeau, 1763. xxxxii, 606 p. 17 1/2

cm. Not seen; from GS 14-543. Agassiz, I, 273, La Haye, 2 vols; Avignon, 1764; *Biogr Univ IV*, 377.

603. BERTUCH, MANFRED Edelsteine und Perlen. Bertuch's Original-Unterrichtsbriefe. Bad Tölz. Warenkundlicher Sonderbriefe, ca 1934, 48 p, 6 pls. Not seen: from Eppler, *Edelsteine u Sckmucksteine*, 1934. Rev by K Chudoba, *Achat*, 2, 3, 1949, p 137-8, who gives the same pag, pls, etc, noting that it is a hectograph(mimeograph) brochure, with the first part on pearls exactly copied from W F Eppler's *Edelsteine u Sckmucksteine*, 1934, and the same for the second part on diamonds and other gemstones.

BERWERTH, FRIEDRICH MARTIN (commonly, FRITZ) (1850-1918)

Ger/Austrian geologist, mineralogist, meteorite specialist; stud nat sci Vienna, Graz, Heidelberg; dir mineral-petrogr sect Nat Hist Mus in Vienna 1904-; prof, 1907-; founder Vienna Mineralogical Soc. NDB, 2, p 173-4.

604. -----1879 Über Nephrit aus Neu-Seeland. *Sitzungsb kais Akad Wiss Wien*, Bd 80, Abt 1, 1879, p 102-18. Examined samples from a 123-kg mass found ca 1860 in Greenstone Creek, a tributary of Teramakau River nr Hokitaka, w coast, South Island, and sent to Vienna Mineralogical Mus. Deep green, largely uniform texture but broken surfaces show fibrosity; chem anal & SG tests identify as actinolite. P 115-6 discuss bowenite serpentine called *tangiwai* by Maoris and used like nephrite; properties and an anal supplied. Pogg 3, 122.

605. -----1890 Die Nephrit-Jadeit-Frage. *Mitt d Anthropologische Ges i Wien*, Bd XX, NF Bd X, Sitzungsb v 15 April, 1890, separate of 15 p. JSL. Rev origin of the problem, that is, the assumption by some archeologists that jades in the hands of American natives, also in Europe, came from some common source, and comments on same. This paper, and many others of smaller size, were published by Berwerth who becames keenly interested in jade artifacts, their petrography, mineralogy, sources, etc.

606. BESAIRIE, HENRI Gites minéraux de Madagascar. *Annales Géol de Madagascar*, fasc 34, vol 1, textes, 2 planches, Tananarive, 1966; printed wrap, 437 p, 93 pls. Includes numerous localities for gemstones. JSL.

BESCHE, G De, see GADOLIN, J

607. BESSER, REINHOLD Über Remy Belleau's Steingedicht Les Amours Et Nouveaux Eschanges Des Pierres Precieuses, Vertus Et Proprietez D'Icelles, nebst einem einleitenden überblick über die Entwicklung des an die Edelsteine geknüpften Aberglaubens. *Zs f neufranzösiche Sprache u Literatur,* 8, 1886, p 185-250. Not seen: C Meier, 1977, p 524.

608. BEST, ELSDON(1856-) The stone implements of the Maori. *Dominion Museum Bull* 4, Wellington, 19;2, 410 p, ill, pls. Not seen: Goodland, p 55.

609. BEST, MICHAEL R & BRIGHTMAN, FRANK H

The Book Of Secrets | Of Albertus Magnus | of the Virtues of Herbs, Stones | and Certain Beasts | Also | A Book Of The Marvels | Of The World | [orn] | Edited by | Michael R. Best | and | Frank H. Brightman | Oxford | At The Clarendon Press | 1973

"Series of Studies in Tudor and Stuart Literature," vol 2.

8°: xlviii, 128 p; front, 33 text fig. Dk blue cloth-like paper over bds, gilt spine title, rules, logo. 21.6 x 13.8 cm(8 1/2 x 5 1/2 in). Cut.

Cont: ser tp; front; tp; publ data; ackn; pref; tab cont; ill list; introd; The Book of Secrets; The Marvels of the World; list of cited works(p 113, 18 entries); collation; index.

A "spurious and doubtful book," and on p[v] "in the section... which deals with the properties of stones, we are indebted to the research of Dorothy Wyckoff in her translation of Albertus Magnus's *Mineralia(Book of Minerals*, Oxford, 1967)." The text is from the first English edition of ca 1550: there were seven other editions between this and the last of 1637. Concerning stones, the present work contains 45 entries which were taken from Albertus Magnus's lapidary and "is followed by a single, rather confused paragraph, supposedly taken from Isidore of Seville, the seventh-century encyclopedist" (p xiii). The stones are treated on p 25-49 of the 2nd book and are illustrated with six woodcuts taken from *Hortus Sanitatis* of 1491. Some of the stones are readily identifiable but others doubtfully so, and still others not at all; the emphasis is upon magical and medicinal virtues.

610. BETANOV, M S O kavkazskom mramornom onikse. K Kavkazskoi yubileinoi vystavke. Tiflis, 1901. 48 n. Not seen. On Caucasian onyx-marbles.

611. BETHE, H Edelsteine Article in *Reallexikon zur deutschen Kunstgeschichte*, Herausgegeben von Otto Schmitt, Stuttgart, Karl-August Wirth, 1937-; vol 4, 1958, columns 714-42; large biblio. Not seen.

BETTELEY, D R, see SOLODKOFF, A v

BEUDANT, FRANÇOIS SULPICE(1787-1850)

Eminent Fr mineralogist, geologist; educ École Polytech & Normale, Paris; prof math Lycée d'Avignon 1811; prof physics Lycée Marseilles; prof mineral Fac Sci Paris 1813; mbr Fr Acad.

612. -----1822

Voyage | Minéralogique Et Géologique, | En Hongrie, | Pendant L'Année 1818; | Par F.-S.Beudant, | ... [3 lines of honors]... | [rule] | Relation Historique. | [rule] | Tome Premier[-Quatrième]. | [publ logo] | Paris, | Chez Verdière, Libraire, Quai Des Augustins, N°25. | [orn] | 1822.

As stated on its tp, 4th vol is atlas.

I:4°: [3], [1 blank], [2]p +p iii-viii + 42, [2]p +. 560 p;II: [3], [1 blank], 614 p; III: [1], [1 blank], 659 p; IV: [3], [1 blank], 16, 4 p + small profile plate, large fold tab; fold political map of Hungary; pls I-VII are profiles; 2 fold maps of Schemnitz region; 2 fold maps of Lake Balaton region; 2 fold maps of Hungary/Transylvania. Aside from the last 2 fold maps, which appear to be identical, the previous 2 are printed in pairs, one with geol legend on right margin, and the other without. There is no rational explanation for this and nothing is said about it in the explanation. 27.6 x 21.7 cm(10 7/8 x 8 1/2 in). Uncut. Atlas vol somewhat taller. BM(NH); JSL; GS 7-83S; Agassiz I, 278.

Cont: I: 1/2tp; tp; dedic; pref; index & errata(in many copies bound in at end of text); text; tab cont. II: 1/2tp; tp; text; tab

cont. III: same. IV: 1/2tp; tp; extract of a report on B 's book by Humboldt, Lelièvre, and Brochant; explan of pls; pls.

During his peregrinations in Hungary, Beudant visited the famous precious opal mines in the Dubnik area of what is now Czechoslovakia. In vol 2, p 182-92, he describes the mountains between Épéries and Tokay and incidentally the opal-mining industry, its commercial history, the principal deposits and mines, geology and mineralogy, types of opal, and also opal occurrences outside the principal mining center of Černevitsa. Of even more value, however, are his discussions of opal in vol 3, p 484- 508, in which he not only considers precious opal mineralogically, but also the so-called jasp-opal and opalized wood. Better and more detailed information appears here on the principal opal mine and the kinds of precious opal that was being found at the time of his visit. Here also is his speculation on the cause of color play in opal and reports on heat treatment experiments designed to "clarify" opal, along with descriptions of minerals occurring in the deposits, the nature of the host rocks, opal vein systems, and other matters of interest. Several translations of the gist of his remarks on precious opal were made; see below.

613. -----1822 Art. XXIII.- On the Opals of Hungary. By J.S. Beudant, Chevalier of the Legion of Honour, Member of the Wernerian Society, &c. *The Edinburgh Phil Trans*, 7, 14, p 332-50.

614. -----1824 Account of Opals of Hungary. *The Boston J of Phil and the Arts*, 1, 1824, p 158-64; "translated and abridged by J W W[ebster].

615. BEUMENBERGER, JOHANN GOTTLIEB

Der vollkommene Juwelier oder... Unterricht über den Schritt, das Gewicht u. den wahren Werth der Diamanten u. Perlen. Ilmenau, nd(1828?). 12°: 104 p, 10 pls. Not seen; Kluge, *Edelsteinkunde*, p 3 gives "Weimar, 1828."

BEUS, ALEKSEI ALEKSANDROVICH

Russ econ geologist, mineralogist, expert in study of ore deposits and granitic pegmatites; prolific writer.

616. -----1956

A.A. Beus | Berillii | Otsenka Mestorozhdenii | Pri | Poiskakh | Razvedkakh | [publ logo] | Gosudarstvennoe Nauchno-Tekhnicheskoe Izdatelstvo | Literatury Po Geologii I Okhrane Nedr | Moskva 1956

8°: 147, [1] p; 39 fig, 19 tabs. Gray-blue heavy paper wrap, title on in orn frame. 22.1 x 14.7 cm(8 3/4 x 5 3/4 in). Cut. 4r 85k. 5,000 copies. JSL.

Cont: tp; tab cont; pref; text; biblio(p 147-8, 27 entries); publ data.

617. -----1962, Engl transl of above

Beryllium | Evaluation Of Deposits During | Prospecting And Exploratory Work | [rule] | A.A. Beus | Academy Of Science, Moscow, The USSR | Edited by Lincoln R. Page | United States Geological Survey | Translated by F.Lachman | for the U.S.Atomic Energey Authority | Preliminary Editing by R.K.Harrison | Atomic Energy Division | Geological Survey Of Great Britain | Publication Arranged By The Geochemical Society | [publ logo] | W.H.Freeman and Company | San Francisco And London [1962]

8°: x, 161, [5 blank]p; 40 fig, 24 tab. Pale blue cloth, white lett & logo on spine; plain brown dj. 23.4 x 15.6 cm(9 1/4 x 6 1/8 in). Cut. LC 62-13299. JSL.

Cont: 1/2tp; other bks in series; tp; publ data; author fwd to Russ edit; editor's note; tab cont; text tp; text; biblio(p 151-3, 39 entries); index; 5 blank p.

P [iv]: "At the request of the author the original Chapter 3 has been replaced by the article, Geochemistry of Beryllium, published in *Geokhimiya*, No.5, pp.75-92, 1956." The first part treats occurrences of beryllium, its minerals, geochemistry, deposit types, etc, while the second part devotes itself to practical prospecting, methods of exploration, sampling, and methods of assessing tenor of ore. Inasmuch as granitic pegmatites yield the largest amounts of beryllium ore, most attention is paid to such deposits and to the principal ore mineral, beryl, which also yields gem material. This work is more useful to the prospector looking for gem beryl than to the gemologist.

618. -----1960 Geokhimiya Berilliya I Geneticheskiye Tipy Berillyevikh Mestorozhdenii. Izdatelstvo Akademiya Nauk SSSR, Moskva, 1960. Not seen; Engl transl below. LC 00-33352.

619. -----1966, Engl transl

[rule] | Geochemistry of Beryllium | And Genetic Types of Beryllium Deposits | [rule] | A.A.Beus Institute Of Mineralogy, Geochemistry, And Crystal | Chemistry Of Rare Elements, Academy Of Science, Moscow, The USSR | Edited by | Lincoln R.Page United States Geological Survey | Translated by F.Lachman For The Geochemical Society | Preliminary Editing by | R.K.Harrison assisted by Miss I.J.Muir | Atomic Energy Division, Geological Survey Of Great Britain | Publication Arranged By The Geochemical Society | [publ logo] | W.H.Freeman and Company | San Francisco And Lond [1966]

16°: ix, [1 blank], 401, [5 blank]p; 61 fig, 148 tab. Pale gray cloth, gold lett spine, publ logo. Plain brown dj. 23.5 x 15.7 cm(9 1/4 x 6 1/8 in). Cut. U S $10.50. LC 65-19560. JSL.

Cont: 1/2tp; other bks of publ; tp; publ data; edit note; tab cont; introd; text; biblio(p372-88, 307 entries); blank f; index; 5 blank p.

In three parts, the first on chemical properties and mineralogy of beryllium minerals, with useful information on beryl and other beryllium gem minerals. The second part describes types of deposits with most space devoted to granitic pegmatites in which gem beryls mainly occur. Part three is on the geochemistry of beryllium. Included in discussions of type deposits are useful remarks on emerald, phenakite, and chrysoberyl occurrences in schist-type rocks. The list of references is very large and contains a number of entries on gemstones.

620. BEVERIDGE, H Babar's diamond: was it Koh-i-noor? *Imperial and Asiatic Quarterly*, London, 3. series, vol 7, 1899, p 370-89. Not seen.

621. BEYER, HEINZ Mineral-Beobachtungen an der Kleinen Spitzkopje(SW-Afrika). *Der Aufschluss*, 31, 1980, p 4-32, 41 crystal drawings, tab, 4 ref. Includes gem quality aquamarine and topaz.

622. BEYER, H OTLEY Tektites in Luzon. Read before the Philippine Scientific Society, November 25, 1928, and issued in 50 multigraph copies of 21 pp. each, from Manila in November 1928. Not seen: H Brown, *Biblio Meteorites*, p 417.

623. -----1934 Philippine Tektites. Not seen: H Brown, ibid, p 459, Book: Manila (1934). See also *Philippine Mag* 32, no.11, 542-43, 581-82(1935). Mineral Abstracts 6, 403 (1937).

624. -----1936 General notes on the Santa Mesa tektite site(Philippines), 26 pp. mimeographed pamphlet(issued privately?). Not seen; H Brown, ibid, p 468.

625. -----1947 Outline review of Philippine archaeology by islands and provinces. *The Philippine J of Science*, Manila, 77, nos 3-4, 1947, p 205-390, 24 pls(mostly of artifacts, with 2 maps). JSL. Contains many scattered references to tektite finds which commonly are detailed and precise in respect to localities.

626. -----1955

The Relation Of Tektites | To Archaeology | By | H.Otley Beyer | Museum And Institute Of Archaeology And Ethnology | University Of The Philippines | [rule] | Full Text, With Illustrations, Of paper No.23 | Proceedings Of The Fourth Far-Eastern | Prehistory Congress(Originally | Presented As Abstract 120) | [rule] | (Special Reprint, With Revisions in 1954) | [rule] | Published By The National Research Council Of The Philippines | University Of The Philippines | Diliman, Quezon City | 1955 [title from wrap cover]

Edgestapled: [1, cover], ii-iii, 45 p; Pls I-XII are actually 18 photos on 8 glossy f bound-in. Bright green wrap. 25 x 17.3 cm(9 7/8 x 6 3/4 in). Cut. JSL.

Cont: cover tp; inside cover blank; tab cont; introd; 4 sections; addendum; ill list(with captions); pls; back cover blank.

Interesting and informative paper on tektites in general: distribution, age, classification, knowledge & beliefs concerning tektites among living or historic peoples, archeological importance, selected biblio(p 37-42, 65 entries). The addendum furnishes more curious lore.

627. -----1961-2

Philippine Tektites | A Contribution to the Study of the Tektite Problem | in General, in the light of both Past and | Recent discoveries | By | H. Otley Beyer | Museum and Institute of Archaeology and Ethnology | University of the Philippines | [rule] | Including a comprehensive history of Philippine tektite exploration and | research during the 36-year period from 1926 to 1961-62. With a full biblio- | graphy and a partial set of abstracts of the tektite literature in general; | and with 100 illustrations, charts and maps. | [rule] | Volume One | (In Four Parts - paged separately) | [rule] | Parts | and II | [rule] | University Of The Philippines Publications | In Natural History And In The New Field | Of Space Science. | Quezon City And Manila [1962; from wrap]

Edgesewn: [2 blank], iv, 160, [2 blank, on green paper!], 290 p; 43 pls; 9 maps(5 fold); 1 fig; 8 tab. Pale green printed wrap. 25.3 x 18.3 cm(10 x 7 1/4 in). Cut. JSL.

Cont: errata slip tip-in; blank f; vol 1 1/2tp; tp; prelim note; pref; addition to pref; dedic; introd; tab cont; tp to Part I; pref note; text; terminal note to Part I; 1/2tp to Part II(on green paper); tp; introd; introd note; tab cont; text; terminal note; ill for both parts; pls; continuation of ill list; blank f.

Contains twelve papers on tektites found at various Philippine sites with detailed descriptions of the deposits, the tektites, collections, chemical composition, etc. According to table of contents, p 14-6, papers 13-20 were to be incorporated in a second volume, again to consist of two parts. However, pagination for this second volume is not given which suggests it had never been published. The present volume, nor the second(?), appear in any recent bibliography on tektites; very possibly the distribution was extremely limited.

628. BEYMER, MARGUERITE H

Rockhounds | In | The Making | By | Marguerite H. Beymer | 1953.

P [4]: "Copyright 1953 By Marguerite H. Beymer First Printing Printed and bound... by The Caxton Printers, Ltd. Caldwell, Idaho 76202."

8°: 112 p; front col pls tip-in(4 polished plume agates); 19 text photos. Stiff col wrap, black lett & b&w cross-sect of agate nodule on cover; black lett spine; back cover plain white. Pale tan endp. 23 x 15.25 cm(9 x 6 in). Cut. Glossy paper. $4.50. JSL. LC 53-37840.

Cont: 1/2tp; pl; tp; publ data; dedic; poem; ackn; tab cont; text tp; pref; text; psalm of the rockhound.

A unique work, containing 68 letters from as many persons who were asked by Beymer how they became interested in one of the earth science hobbies or developed business from such interest. A number of the individuals queried later became either important in the field or famous in some other endeavor, eg Dr H C Dake, editor of The *Mineralogist* and author, Dr Eckert, a mineral dealer of Colorado, and J L Kraft, author, and founder of the Kraft Foods enterprise.

629. BHATTACHARYYA, BENOYTOSH

Gem Therapy. Calcutta(?); first edit 1957; 2nd edit 1962; 3rd edit 1971; none seen.

630. -----1976, 4th edit

Gem Therapy | Dr. Benoytosh Bhattacharyya, M.A., Ph.D., | Rajyaratna, Jnanjyoti, | Ex-Director, Oriental Institute, | Baroda. | Revised and Enlarged | By | A.K. Bhattacharya, D.M.S. | [publ logo] | Firma KLM Private Ltd. | Calcutta 1976 [KLM= K.L. Mukhopadhyay]

8°: [1], [1 blank], xiii, [1 blank], 123, [1 blank]p. Heavy glossy white wrap, 3 blue gems on cover with blue lett; blue spine title; other works of publ in blue on back cover; pale tan endp. 21.2 x 13.6 cm(8 3/8 x 5 3/8 in). Cut. Rs 8.00. JSL.

Cont: 1/2tp; blank p; tp; publ data; tab cont; pref to 4th & prev edits; blank p; 14 chs; 2 appends; blank p.

The deep-rooted conviction of many in India in the efficacy of gems in healing and protection is clearly evident in this popular treatment of ancient Indian gem lore as brought up to date-for modern readers. Powers are attributed to celestial causes, thus enabling gems to envelope one in an aura of colored and cosmic rays that influence well-being. References are made to ancient writings, as the prescriptions in the *Ayurvedas*, and to

modern cures affected by proper use of gems coupled with accurately cast horoscopes. A chapter on "gem teletherapy" was contributed by David V Tansley, MD, and another on "marvels of gem therapy" by J H Hacker, MD, The preparation and use of medicines incorporating gem materials is explained. Reprint, 1981; reset, front matter rearranged but text identical. Rs 10.00. JSL.

BHEND, T, see CHENOWETH, H S

631. BHUSHAN, JAMILA BRIJ, or BRIJBHUSHAN, JAMILA

Indian | Jewellery, Ornaments | And | Decorative Designs | by | Jamila Brij Bhushan | With 3 Colour Plates Depicting 10 Designs | 471 Line Drawings and over 360 Half-tone Illustrations | D.B.Taraporevala Sons & Co. LTD. | Treasure House Of Books | 210 Hornby Road --- Bombay [1935]

8°: XVIII, 168 p; 3 tip-in glossy col pls; 471 line drawings; 360 photos on both sides of 77 glossy pls bound in at end. Pale yellow-tan paper over bds, orange-brown cloth spine, black lett cover & spine. Bright orange & red dec dj; resume, other publ bks. Tan endp; all text paper tan. 28.3 x 22.3 cm(11 1/8 x 8 3/4 in). Cut. JSL.

Cont: 1/2tp("First Edition" + logo);other publ bks; pl; tp; publ data; dedic; ackn; pref; tab cont; ill list; pl; 8 chs; append; col pl; pls title; pls.

The most recent comprehensive work on the subject and deserving of praise for its authoritative contents and wealth of illustrations. The text deals with the vogue for beads in India, ancient jewelry forms, Muslim jewelry types, modern trends, the craft of the goldsmith, precious stones, and hints for the collector. The precious stones chapter, p 134-50, largely concerns the curious lore attached to them in India but also includes data on several famous gems, the persons who owned them, and some elementary gemological information. A list of ornaments in India closes the text. References used are given after each chapter but while the author cites the *Journal of Indian Art & Industry*, for a very large number of illustrations, she does not credit the author, T H Hendley, which see. Text paper browning, embrittling.

632. BIANCO, FILIPPO Trattato sugli anelli antichi. Napoli: Brescia 2 Co., 1829. 8°: 138, [2]p; print wrap. Not seen.

633. BIEHLER, TOBIAS

Über | Gemmenkunde. | [rule] | Von | T. Biehler, | Inhaber Des Chiffre-Ringes Sr.Majestät Des Kaisers Von Russland, | Des Herzögl. Lucca'Schen St.Ludwig-Ordens III.Classe, Der Königl. | Griechischen Medaille Für Kunst Und Wissenschaft Etc. | (Mit Angabe der berühmtesten Künstler und der vorzüglichen Sammlungen.) | [rule] | Wien. | Druck Von Jacob & Holzhausen. | 1860.

8°: IV, [2], 201, [1]p; originally in wrap? 22.7 x 14.5 cm(8 7/8 x 5 3/4 in). Cropped. USGS Kunz Coll; GS 34-397; JSL.

Cont: tp; fwd; tab cont; text; cat of author's coll; errata.

Although little noticed, a most interesting and valuable work full of a large variety of useful information on many aspects of engraved gems, their sculptors, and the collections in which preserved. Biehler admits to being an enthusiastic collector but not a scholar, and perhaps it explains why this work is written in simple language and directly to the point. The text embraces generalities, history of gem engraving and engravers, and the notable gems in the author's collection(p 157-201). Topics include uses of gems, collecting, famous museums, gem engraving as an art, gemstones used, engraving on diamond, hardness scale, identification of gemstones, pastes, paste gems in museums, Abraxas gems, types of engraved gems, subjects depicted, cultural connections, gem engravers of the 15th century, and modern gem engravers. This last is in considerable detail with short biographies and principal achievements of about 220 engravers (p 77-125). There are also remarks on the largest known engraved gems in the museums of Paris, Berlin, Naples, Florence, Copenhagen, The Hague, Cassel, St Petersburg, and elsewhere. Rare.

634. -----1871

Catalog | Der | Gemmen Sammlung | Des | Tobias Biehler, | Ritter Mehrerer Hohen Orden Etc. | Wien, Mariahilf, Marchettigasse N°6. | [orn rule] | Wien, 1871. | Druck Der Typ.-Lit.-Art. Anstalt Von L.C. Zamarski. | [wavy rule] | Im Selbstverlage.

8°: 93, [1 blank]p; pale green wrap, title in orn frame on cover. 23.1 x 15 cm(9 1/8 x 5 7/8 in). Cut. USGS Kunz Coll; GS 34-826.

Cont: tp; text; cat of 709 items; index modern gem engravers; another for ancient engravers; name index modern engravers to 1830; index; blank p.

Detailed catalog of Biehler's collection preceded by general remarks on various aspects of gem engraving. The descriptions of gems commonly include remarks of value while the lists of engravers give for the moderns full names, names of cities or states, and dates of birth and death. A Furtwängler, *Die Antiken Gemmen*, 3, p 430, "the collection of Biehler in Vienna contains falsified cameos... and many other falsifications, also with artist's signatures, [and] the genuine are only insignificant."

635. BIEHN, HEINZ

Heinz Biehn | Die Kronen Europas | und ihre Schicksale | Limes Verlag Wiesbaden [1957]

8°: 235, [1 blank]p; 2 col photos on 2 glossy tip-in f; 114 text photos. Red, unfinished cloth, gold spine title. Col dj, col photo on cover, black title; flap resume. 24 x 16 cm(9 1/2 x 6 1/4 in), Cut. DM 38. JSL.

Cont: logo; tp; publ data; tab cont; fwd; 2 part text; biblio(p 225-6, 62 entries); photo credits; index; blank p.

Careful, scholarly study of crowns of Europe: origins, significance, traditions attached, as tokens of authority; ultimate dispositions. Role of gemstones specifically treated p 65-72, with remarks on very large cut diamonds in crowns but also remarks on other species of gemstones. In places, the text also discusses gems in crowns, sometimes in good detail. The second part provides descriptions of principal crowns, 126 in all, plus history & disposition. References to pertinent literature in text as appropriate; most crowns are depicted on photographs.

636. -----1965

Heinz Biehn | Juwelen | und | Preziosen | [orn] | Prestel-Verlag | München [1965]

8°: 415, [1]p; 7 col pls(2 on glossy tip-in f & not includ in pag; remainder are cut-outs, tipped to text f); 185 fig & ch orns, the latter old jewelry designs. Pale tan-pink unfinished

cloth, gold lett on blue paper spine label; col dj, resume, other publ bks. 18.3 x 10.7 cm(7 1/4 x 4 1/4 in). Cut. DM 18.50. JSL.

Cont: 1/2tp; tp; publ data; dedic; tab cont; 9 chs; epilog; table of diamond cuts & weights(with line-drawing pl); biblio(p 410-15, 156 entries) ackn.

Outstanding, detailed treatment of the human side of gems & jewels, avoiding the technical and emphasizing the romantic. Emphasizes large and important gems and jewels and the persons who owned them or were otherwise involved in their history. Chapter 1 diamond, emerald, ruby, sapphire, topaz, aquamarine, amethyst, opal, pearl, with exceptional examples of each. Chapter 2 amulets, talismans, curious lore. Chapter 3 excellent study of notable collectors and collections, including important engraved gem collections, with special treatment of Rudolf II of Prague, Albrecht of Bavaria, Mazarin, Katherine the Great, etc. Other chapters describe royal presents and honor awards, treasuries, trousseaus, sale or pawn of jewels & gems, and robberies and strange disappearances. Text studded with quotations from many references but few of these are devoted solely to gemstones. Handsomely designed and decorated work.

BIERCE, A, see MORRILL, S S

637. BIGGAR, E B The diamond-mines of South Africa. *Lippincott's Mag*, old series, 27, 159, ns 1, 3, Mar 1881, p 217-31, 7 wood engrav. The story of the first diamond discovery in South Africa and subsequent events leading to exploitation of alluvial mining, then mining of the Kimberley pipe, with anecdotes of life in the mines, the town of Kimberley, the diamond trade, etc. Important as an eyewitness account when the pipe was still being worked on an individual claim basis; charming illustrations of scenes and mining activities. JSL.

638. BIGWOOD, ANNETTE

Institut Technique Superieur De L'Etat | Pour Traducteurs Et Interpretes | [rule] | An English-French And French-English Glossary | Of Precious And Semiprecious Stones | Glossaire Anglais-Francais Et Francais-Anglais | De Pierres Precieuses Et Semi-Precieuses | Annette Bigwood | 1969 [no further data; Brussels?]

Cementb: [5], 314 f; very pale gray print wrap. 27 x 20.3 cm(10 5/8 x 8 in). Cut. JSL.

Cont: tp; fwd; introd; tab cont; cont of the introd; introd; tp to part 1(gen survey, f 1-38); Engl-Fr gloss; Fr-Engl gloss; explan notes; misnomers; biblio(f 308-14, 62 entries).

Gives reasons for preparation, factors influencing gem importance in the economy, methods used in preparation of the work, remarks on translations, how to use, also lists of birthstones, zodiacal/astral gemstones. A good effort, but a glance at the bibliography shows many important works were not consulted, hence there are serious omissions. Apparently very few copies of this work were circulated.

639. BILIŃSKI,BRONISLAW Le vie dell'ambra, la Vistola e le carte geografiche di Tolomeo. *Archaeologica Polona*, Warschau, 7, 1964, p 135-50. Not seen; from G R v Bock, 1981, p 173.

BILLETER, E, see HEINIGER, E A & HEINIGER, J

640. BILLIET, JOSEPH

Cachets et Cylindres-Sceaux de Style Sumérien Archaïque dérivés du Musée, de Cannes(Collection Lycklama). Paris: 1931, 33 p, 6 pls. Not seen: Thomas Heneage, London, Cat 2, 1981, Suppl, p [1], no 154.

BILLING, ARCHIBALD(1791-1881)

B Cromlyn, Co Dublin, Ireland; AB Trinity Coll 1811; MD 1818; settled in London ca 1815; noted for early use of auscultation as a regular diagnostic step; for honors see title below.DNB.

641. -----1867

The Science | Of | Gems, Jewels, Coins, And Medals, | Ancient | And Modern. | By | Archibald Billing, M.D. A.M. F.R.S. F.R.G.S. F.R.M.S | Fellow Of The Royal College Of Physicians; | Member Of The Senate Of The University Of London; | Honorary And Corresponding Member Of The Medical Societies Of Florence, | Brussels, Dresden, And New York; | Formerly Professor Of Clinical Medicine, And Physician, Of The London Hospital; | Examiner In Medicine In The University Of London; | President Of The Hunterian Society; | Vice-President Of The Royal Medical And Chirurgical Society, Etc. | Author Of | "First Principles Of Medicine;" | "Practical Observations On Diseases Of The Lungs And Heart;" | "On The Treatment Of Asiatic Cholera," Etc. | [rule] | London: Bell & Daldy, York Street, Covent Garden; | J.Mitchell, Bond Street, | Publisher To Her Majesty. | [rule] | MDCCCLXVII. | [The right of Translation is reserved.] [1867]

8°: xi, [1 blank], 221, [1 blank], [2]p; 18 bound-in stiff white paper pls, each bearing an actual photo pasted on + 1 woodcut pl with blank conjugate f; no pls includ in pag; 5 text wood cuts, one fullp. Photos yellowing. Bright blue cloth, bevel edges, elaborate orn frames both covers, on front an oval cut-out recess in cover cloth, in which pasted actual photo of an engraved gem, surrounded by gold frame; elaborately gilt spine with blue lett; oval gold frame on back cover enclosing gilt short title. Red-brown, dull finish endp. 22.5 x 15.4 cm (8 7/8 x 6 1/8 in). Aeg. LC 12-11899. JSL.

Cont: 1/2tp; print data; tp; dedic; ill list; errata; blank p; text; append tp; append; blank p; index; blank p; advert.

It is impossible to briefly describe the scope of this captivating melange touching on such diverse topics as gemology, mineralogy, geology, lapidary work, gem engraving, engravers of gems, history of the art, dyeing of agates, falsifications, copies of famous gems, etc. All of this is followed by an appendix containing an extensive life & appreciation of Benedetto Pistrucci(1784-1855), master medallist & gem engraver, translated from the Italian by Mrs Billing, and including autobiographical material as well as information gleaned from other sources. Much of the principal text is especially valuable because of being based upon the author's own experience as an amateur gem engraver. C W King, *Antique Gems and Rings*, 1, p 463, deems this work to be "very amusing and instructive... though full of assertions on points of antique art altogether novel and untenable. But what gives the work a special value is the rare circumstance of its embodying the ideas of one himself an amateur gem-engraver."

The photographs, printed on thin paper and pasted to backing leaves, are remarkable not only for being actual positives but also for depicting engraved gems, carved objects, agate, a jewel, and even a view in the valley of the Nahe River, Idar-Oberstein, Germany. The single woodcut plate is of engraving tools and the

engraving machine head. This, the first edition, is the only one employing actual photographic prints (by F Cole) as illustrations and should be counted as an incunabulum of gemological books so illustrated. Vinet 1664; Allibone, suppl, 1, p 147.

642. -----1875, rev & corr edit

The Science |...| By | Archibald Billing, M.D., A.M., F.R.S. | Fellow Of The Royal College Of Physicians; |...| Vice-President Of The Royal Medical And Chirurgical Society, | F.R.Geol.S., F.R.Mic.S.,Etc. | Author Of | "First Principles Of Medicine;" | "Practical Observations On Diseases Of The Lungs And Heart," | "On The Treatment Of Asiatic Cholera," Etc. | New Edition, Revised And Corrected. | London: | Daldy, Isbister, & Co., Ludgate Hill; | J.Mitchell, Bond Street. | 1875. | [The Right of Translation is reserved.]

8°: [5], [1 blank], 226p + 21 autotype glossy pls on stiff white paper & 1 litho pl of engraver's tools bound-in at end of text + [4] advert p; 5 text fig(one fullp). Each pl with blank thin paper guard. Beveled edges. Binding as before, but mounted photo on cover is cemented into a stamped rather than cut recess. Dk brown dull endp. 22.2 x 14.9 cm(8 3/4 x 5 7/8 in). Aeg. JSL.

I have seen another printing: pl bearing fig 144 now tip-in as front with tissue guard; other pls as before but minus guard leaves. Still another: much plainer binding, border frame of simple triple-rules, small florets in corners; front & back covers with central ovals in Greek "key" pattern; front oval again cut out instead of stamped to take the photo; simpler spine orn; bright yellow, dull finish endp; all pls again at back with guards. A third version: same binding but front cover oval stamped instead of cut-out.

Cont: 1/2tp; pl(only in one version as explained above); tp; print data; dedic; blank f; text(ends on p 131 instead of 132); append tp; append; ill list; index; pls; [4]p adverts, including reviews of first edit.

Reset title; contents rearranged; illustration list to end of text and reset; minor textual changes; additional advert leaf; 3 new pls: 2 of an agate cup engraved upon the exterior, and one of a series of engraved gems with a portrait bust.

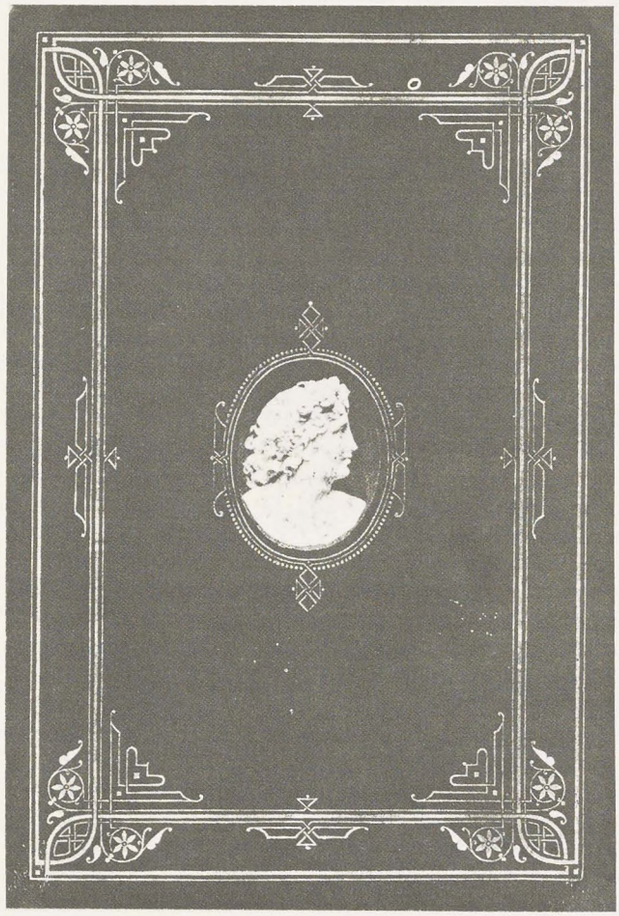
643. BINDRICH, J Bergkristall aus Goyaz(Brasilien). *Zs f Krist*, Leipzig, 59, 1924, p 113-34, figs. Not seen.

644. BINGHAM, REBECCA SAADY

[orn rule] | Gemological | Pharmacopoeia | By | Rebecca Saady Bingham | Illustrated by | Edith Arlene Caro | [orn] | Rebecca Press 1983 [title in red & black]

Reverse of title: "Rebecca Press | 5604 42nd Avenue | Hyattsville, MD 20781"

4°: sewn: [120] unnumb p; 11 drawings; ch & text orns in red(one drawing in red). Dk blue leather spine with GEMS vertically; bright turquoise unfinished silk over bds; pale gray ribbed endp with facing butterfly stampings in gold. White "lana laid" paper. Bound by Green Dragon bindery. 6.5 x 4.7 cm(2 1/2 x 1 7/8 in). Cut. Reg edit, 225 copies, numbered & signed, $50 ea; 25 deluxe copies, lettered A-Y, full leather, gold-stamped, set with genuine gemstone, "each binding will be a different combination of leather and gem, to be truly unique. Each deluxebook will be encased in a leather-covered bookbox,



641. Front cover of Billing's "Gems, Jewels, Coins, And Medals", in bright blue cloth with an actual photographic print inset in a recess

designed to look and open like a real book. Cost: $160."

My deluxe copy in light gray crushed leather, floral orns in each corner of front cover, 5 raised bands, gray endp; in matching box, double-rule & flower orns stamped diagonally across lid; gray paper linings; the inset gem appears to be a brilliant-cut amethyst.

Cont: blank f; tp; publ data; introd; text title; title for "recipes & lists;" text for same; colophon & ltd edit note; drawing in red.

Curious medical lore of gems, i e, amber, amethyst, aquamarine, coral, diamond, emerald, garnet, jade, jet, lapis lazuli, malachite, moonstone, opal, pearl, peridot, ruby, sapphire, topaz, turquoise, zircon. Also 8 recipes for medicines, list of natal gems, weekday gems, planetary gems; colophon gives persons & companies involved in writing, illustration, manufacture, along with information on type font & printing. Attractive, tasteful miniature.

BINGLEY, WILLIAM(1774-1823)

B Doncaster, Engl; MA Cambridge 1803; ordained Church of Engl; prolific, esteemed author, and deemed an able naturalist. DNB; Allibone, 1, p 190-1.

645. -----1816 Useful Knowledge, an Account of the Various Productions of Nature, Mineral, Vegetable, and Animal. London, 1816. Not seen.

646. -----1818, 2nd edit

Useful Knowledge: | Or | A Familiar Account | Of The | Various Productions | Of | Nature, | Mineral, Vegetable, And Animal. | Which Are Chiefly Employed For The Use Of Man. | Illustrated with numerous Figures, and intended as a Work | both of Instruction and Reference. | [double rule] | By The Rev. William Bingley, A.M., F.L.S. | Late Of Peterhouse, Cambridge, And Author Of | Animal Biography. | [publ logo] | In Three Volumes. | Vol.I. Minerals [II. Vegetables, III. Animals] | [orn] | London: Printed For Baldwin, Cradock, And Joy, | 47, Paternoster- Row; And Darton, Harvey, | And Co. Gracechurch-Street. | [rule] | 1818.

12°: I: viii, 280 p, front engrav pl + 3 engrav pls bound-in ahead of text; II: iv, 291, [1 blank]p, front engrav pl + 6 engrav pls ahead of text; III: iv, 265, [1 advert]p, front engrav pl + 4 engrav pls ahead of text. 17.6 x 10.5 cm(6 7/8 x 4 l/S in); cropped. JSL. Agassiz I, 292.

Cont: I: pl; tp; pref; advert; pls explan; pls; text; index. II: same, ends with blank p; III: same, plus advert p.

A kind of economic natural history, written in entertaining style but replete with useful and correct information; achieved considerable popularity, passing through several editions to "as late as 1852"(DNB). The minerals volume treats mineral deposits, systematics of mineralogy, "mineral acids," "earths," and "combustibles," with the main text giving accounts of minerals, stones, salts, oil, amber and other organics, metals, rocks, and water, the last with much information on mineral springs. The first class of minerals("Stones") contains much on gemstones discussed generally, then the species treated in detail, mostly on p 23-72, but others, classed as "soft" stones, appearing elsewhere. Principal gem species: diamond, corundum, spinel, chrysoberyl, topaz, beryl, tourmaline, garnet, quartzes, opal, obsidian, lapis, feldspar, steatite, meerschaum, jades, serpentine, peridot, marbles, jet, amber. Plates depict mountain heights, strata, crystals & cut gems, with top & side view of Pitt or Regent diamond, and cross-section of non-stratified rocks.

647. -----1818, 2nd edit, USA

Useful Knowledge: | Or, | A Familiar And Explanatory | Account| Of The | Various Productions Of Nature. | Mineral, Vegetable, And Animal, | Which Are Chiefly Employed For The | Use Of Man. | [double rule] | Illustrated With Numerous Figures, And Intended As A Work | Both Of Instruction And Reference. | [double rule] | By The | Rev. William Bingley, A.M. F.L.S. | Late of Peterhouse, Cambridge, and Author of Animal Biography. | [orn rule] | In Three Volumes. | Vol.I-.-Minerals. | [double rule] | Philadelphia: | Printed And Published By A.Small, | No.112, Chesnut Street, | Two Doors below the Post Office. | 1818.

12°: xxiv, 240 p; front engrav pl + 3 others at end. 18.9 x 10.9 cm (7 1/2 x 4 1/4 in). Cropped.

Cont: pl; tp; pref; index(for all 3 v); tab cont(for v.1); text; pls explan(v.1 only); pls.

648. -----1825, 4th edit; not seen

649. BINK, HERMANN Deutsche Bernstein. *Beihefte d Inst f Film u Bild*, 242, Seebruck, 1952, 32 p; not seen, from BOCK, G R v, 1981, p 173.

650. BINNEWEISS, B Steinschleifen. Kosmos Verlag, Stuttgart, 1979, 95 p, col ill; not seen, from M O'Donoghue, *J Gemm*, 19, 2, 1934, p 186.

BINNEWEISS, B, see HARTMANN, K

BINYON, L, see ASHTON, L

BION, JEAN-MARIE(-1800?); CHRISTIN, CHARLES-GABRIEL-FRÉDÉRIC(1744-1799) & DELATTRE, FRANÇOIS-PASCAL

J-M Bion Fr jurist; mbr Nat Convent(1792); voted for imprisonment of the king; secty to Council of Five Hundred ca 1795; retired from legislature 1798, died soon after(*Biogr Univ*, 58, p 304); C-G-F Christin, Fr jurist(*ibid*, 8, p 476).

651. -----1791

Inventaire | Des Diamans | De La Couronne, | Perles, Pierreries, Tableaux, Pierres Gravées, | Et autres Monumens des Arts & des Sciences existens au Garde-Meuble: | Inventaire fait en conformité des Décrets de l'Assemblée-nationale- | constituante, des 26, 27 Mai & 22 Juin 1791, | Par ses Commissaires MM.Bion, Christin & Delattre, | Députés a l'Assemblée nationale; | Suivi d'un Rapport sur cet Inventaire, par M.Delattre. | Imprimé Par Ordre De L'Assemblée Nationale. | [rule] | Première[-Seconde] Partie. | [rule] | A Paris, | De L'Imprimerie Nationale. | 1791.

Pt I: 8°: [3], [1 blank], 272 p; pi^2, A-R^8. 19 x 12.4 cm(7 1/2 x 4 7/8 in). Cut. USGS Kunz Coll, GS 33-204; JSL. Cont: 1/2tp; tp; blank p; introd; inventories. Pt II: [3], [1 blank], 296 p; pi^2, A-T^8. Cont: 1/2tp; tp; introd; inventories(to p 279); Delattre's report.

By order of the National Assembly, this inventory of the crown jewels, engraved gems, and other precious objects stored in the Garde Meuble in Paris was conducted after the Revolution by the committee named above. It systematically lists all items, with brief descriptions, weights where appropriate, and estimated values. The introductions to both parts specify the rules under which the inventories were to be conducted and stated that technical assistance was to be provided by a certain Menière, former jeweler to the French Crown, and jewelers Louri and Landgraff, and for the objects inventoried in the second part, the further assistance of Leblond and Mongez. The first part deals with diamonds, pearls, other gems, also jewelry pieces. The Regent diamond appears as the first item with a given weight of 136 k 1/4/16, value 12 million livres(p 51). Other large gems: Mirror of Portugal, 21 k 2/16, 250,000 livres(p 100-1), Dieuxieme Mazarin, 16 k, 50,000 livres(p 101), and Sancy, 38 k 12/16, one million livres(p 99-100). Colored gems in Ch II, p 172-217, including rubies, spinels, topazes, emeralds, sapphires, garnets. The second part describes, sometimes with dimensions and identifications of the materials, a large variety of ornamental objects as vases, cups, bowls, carvings, etc, made wholly or in part of gem materials. These were stored in cabinets and the inventory subdivided accordingly; included are sub-inventories of bronzes and marbles. The report by Delattre sums up the committee efforts and compares the treasure in terms of size and condition to previous official inven-

tories of the crown jewels. Extremely important historical document.

BIRCH, T, see BOYLE, R, 1744, 1772.

652. BIRCH, WALTER DE GRAY Seals. The Connoisseur's Library. New York: G.P. Putnam's Sons, London: Methuen And Co., 1907. 8°: xxviii, 327 p, pls; cloth, gilt; 25.5 x 13 cm(10 1/8 x 7 in). Only the first ch deals with engraved gems used as seals, p 1-19.

BIRDWOOD, GEORGE CHRISTOPHER MOLESWORTH(1832-1917)

B India; practised medicine Bombay 1858-68; served 30 yrs in India Office; prof of botany and materia medica Grant Medical Coll; secty Asiatic Soc; knighted 1881; wrote on botany, art, folklore of India.

653. -----1880.

The Industrial Arts | Of India. | By | George C.M. Birdwood, C.S.I., M.D. Edin., | Art Referee for the Indian Section of the South Kensington Museum. | With Map And Woodcuts. | In Two Parts. | Part I. [-II.] | [Queen Victoria's Monogram] | Published for the Committee of Council on Education | By | Chapman And Hall, Limited, 193, Piccadilly. [1880]

"South Kensington Museum Art Handbooks"

8°: xvi, 130 p + [4]p + p[169]-344; fold part col map of India tip-in facing p [l]; Pls A-O bound-in after p 130; Pls 1-76(actually 78) bound-in and tip-in after p[144]; 37 text wood engrav. All pls on heavy glossy paper. Gilt cloth, or printed wrap. 21.3 x 12.6 cm(8 3/8 x 5 3/8 in). Cut. LC CA19-347 Unrev; JSL; Yang 1117.

Cont: ser tp; note on East India Coll; tp; Latin quot; pref; tab cont; ill list; India map; text to p 130; Pls A-O; ser tp; tp(tp Pt 2); print data; text.

Justly praised work: first part describes Hindu pantheon in detail, followed by plates giving stylized representations of the deities, plus several plates of sectarial marks and sacrificial utensils. Second part provides details on India's handicrafts, and is "a reprint, with added text, of a portion of my *Handbook to the Indian Court* at the Paris International Exhibition of 1878(p.vi)." Considerable information on jewelry, p 183-98, with substantial remarks on curious lore associated with certain gemstones used in the classical jewelry pieces of India. Elsewhere are found brief comments on stone inlay work, esp that of Agra, work in nacre, ivory, horn, and various stones, including jeweled jades. Goodland p 59-60.

654. -----1880, special issue Title nearly the same but omits reference to two parts; there are no 1/2tp and tp leaves for the 2nd part. 8°: xvi, 344 p, paged continuously; same ill; tan cloth, Indian-style gold orn borders at top & bottom of front cover & spine, with central gold orn on cover; back cover plain; gold lett & orns on spine. 21.3 x 12.6 cm(8 3/8 x 5 3/8 in). Aeg.

655. -----1973 facsimile The Industrial Arts Of India... Hounslow, Middlesex: The Reprint Press, 94 Staines Road, 1973. 8 1/2 x 5 1/4 ins. 360 pp, and 91 pp of plates. Cl[oth]. Col'd illus'd d.w. SBN 900363 01 7. £3.OO. "This is an unabridged and facsimile republication." Not seen; from a bookseller's catalog, 1973.

656. BIRMINGHAM MUSEUM AND ART GALLERY

City Of Birmingham | Museum And Art Gallery | Exhibition of | Gemstones | and | Jewellery | 17th February To 16th March 1960 | (The exhibition of Industrial Diamonds is in the Museum of | Science and Industry, Newhall Street) [By the Museum, 1960]

Cementb: 110, [1], [1 blank]p; 21 photos on 6 bound-in glossy f; pale blue wrap, garnet-mosaic jewel on cover; white lett, title in black lett; back cover white. 21.6 x 13.9 cm(8 1/2 x 5 1/2 in). Cut. JSL.

Cont: tp; publ data; fwd; ackn; gemstones; catalog, 460 entries; diamonds in industry; abbr; lenders; press data; blank p.

Guide to a major display which included Devonshire emerald crystal, Canning Jewel, Cheapside Hoard of jewelry, Darnley Jewel, and others. Preliminary remarks on gemstones summarize most important features of diamond, corundum, beryl, spinel, chrysoberyl, and other gemstones of lesser importance. A "Second Edition," ie, a reprint was issued.

BIRNBAUM, CARL(1839-1887); GAYER, K; LINDEMANN, LUDWIG R & BÖLLNER, J

C Birnbaum, Ger chemist; PhD 1881; prof chem, later director polytech inst in Karlsruhe; Pogg 4, 126.

657. -----1873, but not the first edit.

Die | Gewinnung der Rohstoffe | aus | dem Innern der Erde, von der Erdoberfläche | sowie aus dem Wasser. |... | Von | Prof.Birnbaum, Prof. K.Gayer, Dr. Lindemann, Dr.R.Ludwig, J.Böllner. | [rule] | Sechste vermehrte und verbesserte Auflage. | ... | Mit sieben Tonbildern, über 300 in den Text gedruckten Illustrationen, sowie einem Titelbilde. | ... | Leipzig und Berlin. | Verlagsbuchhandlung von Otto Spamer. | [rule] | 1873.

Above is 3rd vol of *Das neue Buch der Erfindungen, Gewerbe und Industrien*.

4°: VI, 416 p; tip-in tinted front pl with tissue, 6 other tip-in pls, over 300 text wood engrav & ills. 1/4 leather, gilt, pebbled brown paper over bds; marbled endp. 24.8 x 16.5 cm(9 3/4 x 6 1/2 in). Cut. JSL.

Part of a popular series of volumes describing inventions, trades, and industries; the present volume treats earth's underground and surface, also the seas; includes useful & decorative stones, gemstones, pearl and coral. The ch on gemstones, p 179-204, richly illustrated with ch vignette, many wood engravs, and pl showing diamonds being transported in the interior of Brazil; topics include properties, classification, occurrences, diamonds, a large section & including famous diamonds, other gemstones, amber and recovery from the Baltic Sea, a famous find of rock crystals at Tiefengletscher in Switzerland, and lapidary work. A ch on sea products includes sections & illustrations of coral & pearl fishing. Subject matter unremarkable but illustrations quaint and add much interest.

BIRNBAUM, F P, see FERSMAN, A E, 1920

BIRTHDAY BOOK, see AMERICAN GEM SOCIETY, 1977, also VAN PELT, H & E

AL-BĪRŪNĪ (or BĒRŪNĪ), ABU RAYHĀN, or ABŪ-R-RAIHĀN MUHAMMED IBN AHMED(973?-ca 1050)

Arabian scholar of Persian parentage; b Khwarizm(now Khiva, USSR); resided in India learning various languages, eg, Turkish, Persian, Sanskrit, Hebrew, Syriac;

to Afghanistan in 1017, teaching in Ghasnl to 1048; studied history, chronology, math, astronomy, philosophy, medicine; wrote a history of India, a materia medica, and other works.

658. -----ca 1000, in MS Kitāb al-jamāhir fī ma'rifat al jawāhir or "Book of the Manifold Knowledge of Precious Stones," by others simply called "Gems." C E N. Bromehead, *Proc Geol Assoc*, London, 56, pt 2, 1945, p 89-134, notes that "Al Biruni ... is said to have given the specific gravity of eighteen precious stones and metals with great accuracy," and "the only translations are German: but since the paper was submitted, I learn that four extracts have been published by the Archaeological Survey of India(Delhi, 1941); the title is "Biruni's Picture of the World," but the book is wholly in Arabic without even a summary in English. A reviewer in the Geographical Journal (for June 1944) says that "Biruni discourses on his theory that before the existence of mankind land had been sea and vice-versa... stones are discovered which, split open, show evidence of fossilized shells and what is known to the Arabs as "fishes'ears"... the third extract... from an important treatise on precious stones, minerals and chemical substances known to the eleventh-ventury Orient, has already appeared in a complete edition of the work published by Professor F.Krenkow, at Hyderabad in 1938. A Translation of the latter edition is a desideratum."" Seyyed Hossein Nasr, *Islamic Science*, 1976, p 53, notes that the book on gems is "considered by many as the most notable Muslim work on the subject," and "in this unique work, al-Biruni combines the philological, mineralogical, physical, medical, and even philosophical approaches, and he studies minerals from all these points of view." For a recent view of this work, see E S Kennedy, DSB, 2, p 147-58, who notes that the book is in two parts, the first on gemstones and the second on precious metals, and "Biruni brings together material from Hellenistic, Roman, Syriac, Indian, and Islamic sources, supplemented by his own observations. In addition to descriptions of the physical properties of the various substances, there are extensive etymological discussions of the technical terminology in many languages and dialects and numerous illustrative quotations from Arabic poetry. The principal mines and sources of supply are cited... there are tables showing the prices of pearls and emeralds as functions of size."

659. -----1963, Russian translation

Abu-R-Raikhan Mukhammed Ibn Akhmed | Al-Biruni | Sobranie Svedenii | Poznaniya Dragotsennostei | [Mineralogiya] | Perevod A.M. Belenitskogo | Redaktsiya Prof.G.C.Lemmleina, | Prof.Kh.K.Baranova I A.A.Dolininoi | Stati I Primechaniya A.M.Belenitskogo | I G.G.Lemmleina | [sketch of chemical apparatus] | Izdatelstvo Akademii Nauk SSSR | 1963 [names in boxes; title in red & black]

Facing title: in Arabic, red & black, small triangular orn.

"Akademiya Nauk SSSR Klassiki Nauki, Aleksandr Markovich Belenitsky, translator."

8°: 518, [2]p + [1]f tip-in(errata). Glossy photo pl tip-in, 19 figs, tip-in fold map p 504. Dk maroon cloth, a gold title surrounds the oval, blind-stamped portr of al-Biruni on cover; blind-stamped edge frame; gold spine title with red bands & gold rules. 21.4 x 16.8 cm(8 3/8 x 6 3/8 in). Cut. Price 2r 75k. Press run 2,000. USGS Libr; LC 65-81529.

Cont: 1/2tp(red & black); Arabic tp; tp; editorial staff; text tp with portr vignette; tp; pref; text in 3 parts; commentary; table of measures; biblio(p 491-4, ca 90 entries, see also entries on p 419-90); indexes; tab cont; publ data; advert; tip-in errata sheet.

Text not examined.

AL-BĪRŪNĪ, see SAID, H M

660. BISHOP, C W The elephant and its ivory in ancient China. *J Amer Orient* Soc, 41, 1921, p290-306; not seen.

BISHOP, HEBER REGINALD(1840-1902)

B Medford, MA; at age 19 entered sugar business in Cuba, founding sugar refining & export house of Bishop & Co in 1861; sold business 1873, returned to U S, where engaged in iron mining, iron manufacture, etc; by 1879 assembled important collection Amerindian artifacts from Alaska/ Canada; traveled extensively to acquire objects; last great collection oriental antiquities, esp jades & hardstone carvings, which proclaimed in 1900 to be largest of its kind; acquired rough jades, part from Damour's private collection, and including the large Silesian nephrite mass of 4,715 lb donated to American Museum of Natural History in New York and still on view. As preparation toward donation of his collection to that museum, set in motion the publishing of his 2-vol *Investigations and Studies in Jade*(1906), see below, with George F Kunz placed in charge of accumulating data and instigating preparation of articles on various aspects of jade. The jade collection was presented to the museum in 1902. See also G F KUNZ, "Heber Reginald Bishop and his jade collection." *Amer Anthropologist*, ns, 5, Jan-Mar 1903, p 111-7, with portr pl of Bishop.

661. -----1900.

The Bishop Collection | [rule] | Investigations And Studies | In | Jade | [rule] | New York | 1900 [Priv publ, Mershon Company Press, Rahway, N. J.]

8°: [6], 378 p; 4 fig; musical scales p122-4. Contemp 1/4 leather & cloth binding; I have not seen the original binding. 22.8 x 15 cm(9 x 5 7/8 in). Cut. LC 0-5656; JSL.

Cont: 1/2tp; tp; publ data; note; text.

Apparently these are the contributions solicited by Kunz for publication in the great two volume catalog of 1906(which see) and pre-published here. Presumably the unsigned articles were written by Bishop.

Jade as a mineral,p 1-14(with F W Clarke, on jade colors, 6-10); S L Penfield, crystalline system, optical properties, 14-17; C Palache, properties & table, 17-36; J P Iddings, microscopic petrography, 37-60; tenacity, 60-62; L W Page, impact tests, 62-70; I H Woolson, compression & tension tests, 70-93, 93-95; fracture, hardness, 95-98; T A Jaggar, microsclerometer hardness tests, 98-110; W Hallock, SG, 111-15; sonorousness, 116-9; W Hallock, sonorousness tests, 120-4; F W Clarke, chemical constitution, 125-77; S L Penfield, chemical notes, 177-96; inclusions, 197-99; L V Pirsson, origin of jadeite, 200-7; J P Iddings, relation of jadeite to nephrite, 208-12; H S Washington, localities, geol occurrences, 213-64; G F Kunz, minerals mistaken for, 265-84; S W Bushell, jade in China, 285-320, also by Bushell: Yü-Shuo, a discourse on jade... by T'ang Jung-Tso styled Hsi-Wu... translated by Stephen W Bushell, p 321- 66, with an appendix giving titles of 71 books quoted in the discourse, p 367-70, and illustrations of the modern manufacture of jade... by Li Shih-Ch'üan, styled Chêng-Yuan, p 371-78 [actually descriptions of the illustrations and not the illustrations themselves, which are not given here]. Because of its importance, this contribution is described separately, see T'ANG JUNG-TSO.

Aside from the detailed work on jades by H Fischer(1880), which see, no other work, even now, approaches the above for

its wealth of property data; the occurrences section by Washington is richly supplied with bibliographical footnotes of continuing value to students of jades. Bushell's translation seems to be found nowhere else save here. This book, apparently printed in very few copies and probably for extremely limited private circulation is so rare that I have not seen advertised another copy in thirty years.

662. -----1903?

The Heber R. Bishop | Collection Of Jade | And Other | Hard Stones. | [orn rule] | Published By | The Metropolitan Museum Of Art. [New York, nd, ca 1903]

At head of title: "Price 10 cents. [underlined] | The Metropolitan Museum Of Art. | [orn rule] | Hand-Book No.10 | [orn rule].. ."

Edgestapled: 104 p; pale gray printed wrap; 21.7 x 14.1 cm(8 1/2 x 5 1/2 in). Cut. JSL.

Cont: tp; introd; arrangement of collection; text.

Briefly discusses jades and properties, then catalogs 1,000 pieces, of cut & rough in very brief fashion, sans dimensions, dates, etc. Includes hard stones other than jades. G M Born, 1982, p 232.

663. -----1906

The Bishop Collection | [rule] | Investigations And Studies | In | Jade | Volume One[-Two] | [engrav vignette, a butterfly with swastika on each wing] | New York | Privately Printed | 1906

P 1: "The Executors of the Estate of Heber R. Bishop certify that this edition of "Investigations and Studies in Jade" consists of one hundred copies printed on American hand-made paper, ninety-eight of which are for presentation and two for copyright. After printing, the type was distributed and all materials used in the preparation of the work were destroyed, by direction of the Executors. This copy is Number 69 [in red]"

Copy examined in the Rare Book Room, American Museum of Natural History, New York City.

P [vi] bears DeVinne Press logo, and below, "Copyright, 1900, by Heber R. Bishop, and 1906, by The Estate Of Heber R. Bishop. All rights reserved."

Vol I: 2°: [4 blank], xvi, [1], [1 blank], 277, [7 blank]p. Very dark greenish-brown full crushed morocco, 5 raised bands, gold rules on covers, gold-ruled panels & title on spine; gold rules inside front cover edges with covers lined with dark grayish-green moiré silk; similar silk fly. 60.9 x 46 cm(24 x 18 in). Teg; be & fe deckled. Leather probably fading to purplish-brown.

Ills: front pl, loose tissue, engrav portr of Bishop, on pale tan paper cemented to leaf; facing guard sheet with Bishop's facsimile signature. 20 text figs, 3 b&w photo pls of petrographic thin sections(6 photos 1); 6 hand-watercol pls by Chinese artist Li Shih-Ch'üan; 1 hand-col pl of Chinese calligraphy; 6 hand-col pls of lapidary operations(2 ills per pl); 21 col litho pls by either Prang or Forbes of Boston; 27 engrav b&w pls; 13 tinted engrav pls; 2 maps on a single leaf(one map tinted); 16 ornamental head-, tailpcs & inits. Many of the plates are cut-outs, tipped-on; most are provided with facing caption leaves.

Cont: 2 blank f; limited edit note; 1/2tp; portr pl & guard; tp; publ data; tab cont; ill list; col pl with caption; pref & ackn; text in 5 parts; biblio(p 257-60, 42 entries); pl & caption; index title; index; blank p; 3 blank f.

Vol II:

The Bishop Collection | [rule] | Investigations And Studies | In Jade | [rule] | Catalogue | Volume Two | [engrav of jade fish carving] | New York | Privately Printed | 1906

2°: [4 blank], xii, [1], [1 blank], [1], [1 blank], 293, [7 blank]p. Ills: 291 text figs; 13 col litho pls; 8 b&w engrav pls.

Cont: 2 blank f; limited edit note; 1/2tp; tp; publ data; tab cont; ill list; catalog pref; 5 ch in catalog with Ch VI being the index; blank p; 3 blank f. Together, the volumes weigh 111 lb(ca 50 kg).

In the preface, Bishop stated that he became "much interested" in Chinese and Japanese art between 1870 and 1880, during which time he began collecting jades, including some that were looted from the Summer Palace, Peking during the Boxer Rebellion in 1860. He also made special trips to Europe to collect more examples. Making the acquaintance of G F Kunz, the latter interested him in collecting rough specimens as well as finished pieces, and as mutual esteem increased, Bishop enlisted Kunz in obtaining the services of experts for the preparation of a "mineralogical section" of the forthcoming catalog. In Peking, Bishop met the noted English jade expert, S W Bushell, who further encouraged his interest in jades. Describing the present work, Bishop noted that there were more than 450 illustrations, of which 20 watercolors were hand-painted by a Peking artist. The 36 copper etchings and 24 woodcuts were "all executed by the best artists of Paris," with the jades being sent to France for this purpose. In addition, 96 objects were depicted in color on lithograph plates prepared by the firms of Prang and Forbes of Boston. The greater part of the pen-and-ink sketches in the text were originally drawn by George E Burr. Descriptions in the catalog were largely from the pen of Kunz.

The first volume is a comprehensive treatise on jade in all its important aspects while the second volume is the catalog. Thus the first volume begins with an introduction to jade, with the second part about jade in China which includes "A Discussion on Jade," translated from the Chinese *Yü Shuo*, with the Chinese text an color illustrations of modern jade carving operations. The third part treats jade as a mineral, providing all data then known on properties, characters, localities, origin, deposit geology, jade minerals, and minerals resembling jade. The fourth part describes methods of working jade in China and New Zealand, with a good discussion of Maori technique. Part five generally describes the kinds of objects worked up from jade by primitive peoples to those carved in relatively modern times. The sixth part is the bibliography.

The second volume consists likewise of six chapters, of which the final one is the index. The first chapter introduces the catalog and describes the presentation scheme and is followed by a chapter on the minerals called jade, with descriptions of rough specimens according to source and color. The third chapter is archeological treating the employment of jade for the manufacture of implements, weapons, ornaments, ceremonial objects, etc, as well as providing remarks on some casts made from jade objects in European museums. The fourth chapter describes ancient and "tomb" jades of China, while the fifth chapter deals with jades produced during historical periods.

Pertinent to the above is G F Kunz, "Heber Reginald Bishop and His Jade Collection," *Amer Anthropologist*, ns, 5, 1903, p 111-7, also his invaluable description of the catalog, "The Printed Catalogue Of The Heber R. Bishop Collection Of Jade," Occasional Notes No II, Suppl to Bull *Metropolitan Mus Art*,

May, 1906, [1], 8 p, ill. Here Kunz noted that no copies were ever sold, and that only members of Mr Bishop's family received copies as private individuals as listed in Kunz's paper, and noting that the volumes, when finished, weighed 70 and 55 pounds, and six copies were specially bound and tooled with appropriate arms, etc, for the Prince of Wales, Emperor of Germany, Czar of Russia, Queen of Holland, Mikado of Japan, and Emperor of China. The Russian set, sold in 1974, is mentioned below. Kunz's description of the set also gives the plan of the work, the paper and its maker, printing, type, illustrations, bindings, and finishing tools, also the names of the contributors. For comments on the collection itself, see a note in *Bull Metro Mus Art*, 32, Dec 1937, p 276-7, also J M Hartman, *Arts of Asia*, 4, May-Jun 1974, p 38-43, and G M Born, 1982, p 231-2.

It is said that the cost of the 100 sets came to $100,000 possibly making this the most expensive book produced in modern times. The size and weight make handling extremely awkward and actually two adults are needed to comfortably lift and move either volume. Almost every set that survives is in the hands of an institution or government agency. However, in the early 1950's a set was offered in San Francisco at $1750.00, which may be the same described by Mrs H Z Chenoweth, *Gems & Mins*, no 260, May, 1959, p 70-4, with photo, then in the possession of Florence and Lloyd Underwood of San Mateo, California. The Russian set, mentioned above, was offered in early 1974 by Spink & Son, London(pers comm, Apr 23, 1974). It is set no 14, "magnificently-bound in thick red levant morocco, elaborately gilt-decorated, with borders of flowers in heavy gilt, and jade ornaments; thick raised bands, heavily gilt. Red watered silk endpapers." It was sold for £2,500 or approximately $6,000. This set was "presented to Tsar Nicholas II, with the Imperial Arms, gilt on cover in green, blue and white, nd with his bookplares from the library of the Winter Palace(l'Hermitage), t.e.g. bound by Stikeman of New York, with his stamp."

664. BISMARCK, RULE v Bernstein - das Gold des Nordens. *Wanderndes Museum*, Schleswig-Holstein, 3, Neumünster, 1972, 39 p. Not seen: from G R v Bock, 1981, p 173.

665. BISSING, F W Fr v, Studien zur ältesten Kultur Italiens. II. Etruskische Skarabäen und Skarabäoide aus Bernstein. *Studi Etruschi*, 5, Comitato permanente per l'Etruria(Centro di Alti Studi dell'Ente Fascista di Cultura, Firenze), p 49-69, pls 2-4. Etruscan scarabs and scaraboids made from amber; lack of material prevented chemical analysis to determine possible source; rev K Andrée, *Bernstein-Forsch*, 3, 1933, p 218.

666. BITNER, FRED H

Arizona | Rock Trails | Maps to and | Descriptions of | Interesting | Locations | Where Specimens | may be found | Set of 20 Maps | Over 60 Locations | $2.00 | Published in | "The Wests Most | Western Town" | [Scottsdale, Arizona: Bitner's, pre-l957.] JSL.

Thick paper slipcase, open at top, printed, containing 20 cards, 17.7 x 14 cm(7 x 5 1/2 in), each with sketch map on one side and directions.

667. -----1957, rev

Arizona | Rock Trails | By Bitner |... Where To Go... | How To Get There | What To Look For | Revised Edition | Seven *New* Maps | 20 Maps - Over 60 Locations | $1.95 | Published In "The West's Most Western Town." | Copyright 1957 Fred H. Bitner [Scottsdale]

Slipcase now with desert scene in pale orange-brown. JSL; LC MAP 57-510.

668. -----post 1957, rev Slipcase now states "Revised Edition | 10 *New* Maps," the number 10 placed within a large dot. JSL.

669. BIVAR, A D H Catalogue of the Western Asiatic Seals in the British Museum. Stamp seals. II. The Sassanian Dynasty. London, 1969. vii, 145 pp, 32 pls., 4 tables of shapes. Buckram. 28.5 x 23 cm. Not seen: from Thomas Heneage Cat., London, 1985, no 302.

670. BLACK, [J] ANDERSON & SBORGI, FRANCO

Anderson Black | storia dei | Gioielli | a cura di Franco Sborgi | Istituto Geografico De Agostini - Novara [1973]

8°: 399, [1]p; ca 540 col photos, 1 b&w photo, 3 tinted ill, 30 line drawings. Dk blue crushed leatherette, elaborate gold jewel on cover in elaborate gold frame; gold panels, dec with lett on spine. Pale gray endp reproducing antique engrav of a goldsmith's workshop. Dk blue, plastic- coated dj, col photo. 31 x 22.7 cm(12 7/8 x 9 in). Cut. Printed cardbd mailing case.

Cont: 1/2tp; tp; publ data; tab cont; introd(Sborgi); text; 3 append; biblio(p 385-6, ca 175 entries); index; photo credits.

Large, handsome, high-quality production, on jewelry throughout the ages. Contains sections on pearls(p 175-8), famous diamonds(194-205), but major gem text in Appendix B, p 353-75, with many illustrations of cut & rough, and accompanying text which briefly describes the principal and some minor gemstones, and including the organics. Crown jewels and national collections of jewelry/gems in Appendix A, p 326-52. Appendix C, p 376-83, is a glossary including gem terms, and illustrated with several line drawings. The numerous color photos are generally of good quality.

671. BLACK, J ANDERSON

A History of | Jewels | By J. Anderson Black | With an Introduction by | Edward Lucie-Smith | Orbis Publishing · London [1974; color title photo spread over 2 pp but title, in black, printed recto only]

8°: 400 p; ca 540 col photos, 1 b&w photo, 3 tinted ill, 31 line drawings, 1 drawing of hallmarks. Gray, unfinished cloth, gold lett & rules on spine. Pale gray-blue pictorial endp. Col dj, col photo diamond jewel; resume, vitas. 30 x 22.5 cm(11 3/4 x 8 7/8 in). Cut. £9.50 net in UK only. ISBN 0 85613 151 2. In heavy cardbd slipcase of similar cloth and dj paper. JSL.

Cont: 1/2tp; tp; publ data; introd; fwd; tab cont; text; appends; biblio(p 384-5, 132 entries); index; ackn.

See previous entry for scope & nature; the text appears to be basically the same but why this should be published one year later than the Italian version is not explained. Slight changes, eg, tp, also 5 added col photos in front matter; gloss illustrations rearranged and include two extra. Arntzen, P584.

672. BLACKBURN, DOUGLAS, & CADDELL, W WAITHMAN

Secret Service | In South Africa | By | Douglas Blackburn | Document and Cipher Expert to the late Transvaal | Republic. Author of "Prinsloo of Prinsloosdorp," | "Richard Hartley,

Prospector," etc. | And | Captain W. Waithman Caddell | Chief Repatriation Magistrate for the West Rand | on the British Occupation | [orn] | Cassell And Company, Ltd. | London, New York, Toronto and Melbourne | 1911

8°: xi, [1 blank], 380 p. Brown cloth, gold lett, rules spine. 21.4 x 13.6 cm(8 3/8 x 5 3/8 in). Cut, teg. JSL.

Cont: tp; publ data; fwd; tab cont; 15 chs; index.

Episodes of police investigative work; Ch 10 on hidden treasure quests, including diamond hoards; Ch 15, p 321-73 mainly of interest for information on illicit diamond buying, explaining modus operandi, and means taken to combat same.

BLACKER, J F, see GORER, E, 1911

673. BLAGROVE, GEORGE H

Marble Decoration | And | The Terminology Of British And | Foreign Marbles | A Handbook for Students | By | George H. Blagrove, | Author Of "Shoring And Its Application," Etc. | With Twenty-eight Illustrations | [logo] | London | Crosby Lockwood And Son | 7, Stationers' Hall Court, Ludgate Hill | 1888 [[All rights reserved]

8°: vi, 122, 32 advert+ 16 advert p; 28 fig. Dk blue ribbed cloth, gold title on cover in black orn ruled frame & black logo; gold title & logo spine; blind-rule & logo back cover. Dk brown dull finish endp. 18.5 x 12.5 cm(7 1/4 x 4 7/8 in). Cut. USGS Kunz Coll, GS 21-340; JSL.

Cont: tp; publ data; pref; tab cont; 7 chs; append; index; publ catalogs.

Nature and properties of marbles, quarrying, manufacture, cleaning & preservation, cements & mastics, arrangements of colors, marble mosaics, mouldings, carved ornamentation, etc, all told in an interesting and understandable text of considerable value to the apprentice stone mason. Appendix, p 61-118: glossary of several hundred terms applicable to British and foreign marbles.

674. BLAISE, J & CESBRON, F Données minéralogiques et pétrographiques sur le gisement de lapis-lazuli de Sar-e-Sang, Hindou-Kouch, Afghanistan. *Bull Soc franç Min Crist*, 89, 1966, p 333-43, 6 fig. JSL. Source of the celebrated lapis-lazuli of Afghanistan described geologically and mineralogically.

BLAKE, ROBERT P, see EPIPHANIUS, 1934

675. BLAKELEY, FRED

[orn rule] | Hard Liberty | A Record of Experience | Written By | Fred Blakeley | And Prepared For Publication By | Muriel V. Morley | With Twenty-Eight Illustrations From | Photographs |... [12 lines, quotes] ... | [logo] | George G. Harrap & Company Ltd. | London Toronto Bombay Sydney [1938]

8°: 276, [1], [3 blank]p; 29 photos on 16 glossy tip-in f & includ front; sketch map. Pale red cloth, blind double-rules on front cover; gold lett & logo spine. 21.8 x 14.3 cm(8 1/2 x 5 5/8 in). Te pale red; untrimmed JSL.

Cont: 1/2tp; front pl; tp; publ data; fwd; tab cont; ill list; map; 21 chs; 3 blank p.

Describes in a most interesting manner the author's wanderings in the back country of South Australia and Northern Territory during which he spent most of his time prospecting and mining, including spells of opal mining at White Cliffs and elsewhere. Most opal information in Ch 2, p 25-42; several contemporary photos of opal-mining.

676. BLAKEMORE, JEAN

Treasure Hunting | in | Maine | Gems And Minerals | By Jean Blakemore | Published For | The Smiling Cow Shop, | Boothbay Harbor, Maine | $2.00 [1952]

Perf sheets, edgebound, plastic hinge: 118, [2 blank]p. Thin card covers, b&w title on green & white sketch of crystals; back cover white. 20.2 x 15 cm(8 x 5 7/8 in). Cut. LC 58-41947; JSL.

Cont: tp; publ data; introd & ackn; fwd; text; blank f.

Enthusiastic, highly informal account of Maine's gemstones and where to find them; sections on localities arranged according to county, pegmatites, economically important pegmatite minerals, tables of Maine gemstones, mineral production data, what to do with specimens after obtained. Errors in fact, many spelling errors, apparently hastily and carelessly written.

677. -----1961, 2nd edit, rev, illust.

We Walk On Jewels | Treasure Hunting in Maine | for Gems and Minerals | [small crystal drawing] | Jean Blakemore | Second Edition, Revised and Illustrated | Published by | Seth Low Press, Rockland, Maine [1961; title in b&w on pale gray panel, the latter in b&w ruled frame]

Same binding: 131p, first [2]p blank; 7 col ill, 26 photos, 10 figs, 48 sketch maps. Heavy col print wrap, col painting of gems & minerals on cover with col title; part col Maine map back cover. 27.8 x 21.6 cm(11 x 8 1/2 in). Cut. JSL.

Cont: blank f; dedic; tp; publ data; col pl; tab cont; biblio; index; ill list; credits; pref; 6 chs; blank p.

Entirely rewritten, many errors corrected, new material added. Front col pl shows "World's Largest Beryl Crystal," a fanciful and unrecognizable painting. The first chapter contains many "largests" and "firsts" for Maine minerals, many of which are unsubstantiated. Other chapters provide brief geology of Maine, recognition of minerals, field trip advice, list of minerals and towns in which found, field trips to localities (with index & locality maps), and uses to which collected materials may be put. Rambling, numerous inaccuracies, excessive use of slang, interpolated reminiscences, and inclusion of information that does not contribute to the purpose of the book.

678. -----1976, [3rd edit]

We Walk On Jewels | Treasure Hunting In Maine | for Gems and Minerals | Jean Blakemore | Courier of Maine Books | One Park Drive | Rockland, Maine 04841 [1976]

Cementb: [7], [1 blank], 176 p (last p blank); 13 col photos on 8 glossy f with 13 index diagrams, 4 sketches, 12 photos, 61 sketch and index maps. Stiff paper wrap, col photo on black front cover; portr of author back cover with resume. 20.3 x 13.5 cm(8 x 5 3/8 in). Cut. $4.95. LC 76-40585; ISBN 0-913954-26-8. JSL.

Cont: tp; publ data; tab cont; pref; Maine mineral & locality list; 6 chs; index; blank p.

Some rearrangement in preliminaries, slight revisions in text; most errors and misstatements still present.

BLAKEMORE, KENNETH & ANDREWS, GORDON FREDERICK(1913-1979)

K B educ Christ's Coll, Cambridge; bank clerk; schoolmaster; journalist; editor *Watchmaker, Jeweller and Silversmith*, London for over 28 yrs. G F A, jeweller in early years; Tully Medallist 1931; secty Nat Assoc Goldsmiths and Gemm Assoc Gt Brit 1939-73; founded *J Gemm*, remaining editor to retirement in 1973.

679. -----1966

Collecting Gems and | Decorative Stones | by | Kenneth Blakemore And Gordon Andrews | W. & G.Foyle Ltd. | 119-125 Charing Cross Road, | London WC2 [1966; both spine & cover titles use "ornamental" stones]

16°: [2 blank], 80, [2 blank]p; 20 photos, 4 line drawings on both sides 6 bound-in glossy f. Col plasticized paper over bds; col photo cover & title; spine title; other publ bks back cover. 18 x 11.8 cm (7 x 4 5/8 in). Cut. Pale tan paper. 5s. JSL.

Cont: blank f; 1/2tp & resume; publ advert; tp; publ data; tab cont; ill list; 7 chs; index; blank f.

Brief survey of gem collecting hobby and its possibilities; emphasizes field trips; data on most important species & varieties; short ch on gem cutting by amateurs. Illustrations mostly of rough specimens; line drawings of optical phenomena in brilliants, also other cutting styles. Rev *G & G*, 12, 6, 1967, p 191; *Zs Dt Gemm Ges*, 60, 1967, p 40.

680. -----1974, large print edit

Collecting Gems and | Ornamental Stones | by | Kenneth Blakemore | And | Gordon Andrews | Magna Print Books | Pudsey Yorkshire [1974]

16°: [5], [1 blank], 186 p; same ill but now in text; plasti-coated bds, blue & gray, b&w photo on cover with white title on blue ground; spine title; back cover adverts. 19.5 x 12.5 cm(7 5/8 x 4 7/8 in). Cut. USA. $6.95. ISBN 0 86009 009 4; JSL.

Cont: 1/2tp; tp; publ data; tab cont; 7 ch. Title now consistently rendered; text same; ills much less distinct. 681.

BLAKEMORE, KENNETH

The | Retail Jeweller's Guide | Kenneth Blakemore | Editor Watchmaker, Jeweller and Silversmith | Technical Adviser: G.F.Andrews, | Secretary of the National Association | of Goldsmiths of Great Britain and | Ireland, and Scretary of the Gemmological | Association of Great Britain | London Iliffe Books Ltd [1969]

16°: 270, [2 blank]p; 106 fig, 12 col photos on 4 bound-in glossy f. Green,mottled cloth simulating leather. Col dj, resume, vita, portr, other publ bks. 21.7 x 14 cm(8 1/2 x 5 1/2 in). Cut. 75s net or £3.75 in UK only. ISBN 59206516 2; JSL.

Cont: 1/2tp; note; tp; publ data; tab cont; pref; 9 chs; glossaries; appends; index; blank f.

Written to succeed *The Retail Jeweller's Handbook*, by Selwyn-(which see), "primarily to provide new entrants in the retail jewellery trade with the necessary knowledge about the goods that they are likely to have to handle during their careers." Hence describes metals, gems, antique silver, hallmarks, manufacture of silverware, etc, but also provides chapters on history of timepieces and jewelry. Glossaries include gem terms; appendixes give lists of gemstone properties, recommended trade names, and other data of interest to the gemologist. Ch 2 treats gems in particular, p 36-72, and is a concise, accurate presentation of the principal stones used in jewelry with sidelights on some technical aspects of gemology, and considerable information on cutting, the diamond, pearls, synthetics, etc. Two of the color plates show rough opal, rather poorly done, and cut gems. Rev *G & G*, 15, 3, 1975, p 96.

682. -----1970, New York

The | Retail Jeweller's Guide | K. Blakemore | Editor, Watchmaker, Jeweller and Silversmith | Chemical Publishing, New York | 1970

Green leatherette, gold spine title; else same; $17.50. JSL.

683. -----1973, 2nd edit; not seen

684. -----1976, 3rd edit

The | Retail Jeweller's Guide |... | Editor of Watchmaker, Jeweller and Silversmith | Technical Adviser: G.F.Andrews |... [4 lines] ... | Newnes-Butterworths | London Boston | Sydney Wellington Durban Toronto [1976]

16°: [7], [1 blank], 323, [5 blank]p; 180 fig. Purple, cloth-type paper over bds; silver spine lett. Green dj with photos, resume, vita, advert. 21.5 x 13.7 cm(8 1/2 x 5 3/8 in). Cut. £9.80 net. ISBN 0 408 00266 2; JSL.

Cont: 1/2tp; tp; publ data; pref; tab cont; 11 chs; 4 glossaries; 5 appends; index; 5 blank p.

Substantially revised, enlarged; Ch 2 on gems, p 36-86, 11 figs; discusses modern trends in gem industry, predictions, use of certain rare gems, eg, tanzanite, tsavorite, descriptions of major and minor gemstones, organics, synthetics, brief remarks on lapidary work. Gemstone properties tabulated: Append I, p 291-99; gemological glossary p 277-9.

685. -----1983, 4th edit

London: Butterworths, 1983, vii, 359 p; ills in b&w. £18.00. Not seen; rev *J Gemm*, 19, 1, 1984, p 69.

BLAKEY, GEORGE G (1934-)

B England; grad econ & law Trinity Coll, Cambridge; writer, lecturer on stock market & investments; former editor *The London Gold Report.*

686. -----1977

The | Diamond | By George G. Blakey [London: Paddington Press Ltd, 1977]

8°: 280 p; 58 col photos, 162 other photos, sketches, maps; 2 tabs. Brownish-red cloth, gilt spine, mustard-yellow endp with reproduction of antique engrav pl(jeweler's tools). Black dj, col photo rough diamonds; resume, vita. 27.9 x 21.3 cm(11 x 8 3/8 in). Photos on glossy paper; mustard-yellow paper for appendix. Cut. £ 10.95. ISBN 0-44S-22062-8. JSL.

Cont: 1/2tp; publ data; tp; publ data; ackn; tab cont; introd; 10 chs; append; biblio(p 273, 16 entries); gloss; index.

Large, handsome monograph written in popular style, on many phases of the diamond from natural history to final uses in ornament and industry. The emphasis is on the romantic or intriguing aspects, commencing with a first large chapter on the history of diamond as given in early accounts, notably in Pliny, and citing curious and religious lore, famous diamonds, ancient sources, etc; a number of color photographs depict several famous stones but more details on them appear in the appendix which lists diamonds of over 100 carats. Other chapters treat origin of diamonds in nature, properties and crystallography, deposits, especially those in South Africa, and also deposits in

Siberia, cutting, grading, simulants & imitations and their distinction, synthetic diamonds, diamond in jewelry, robberies & deceptions, and industrial diamonds. All illustrations are of high quality and include a number of historically important photographs that have not been published before. Technical information is held to a minimum, and all of it seems accurate, well researched, and well organized.

687. BLANCHET, JULES ADRIEN(1866-)

Les | Camées De Bourges | Par | Adrien Blanchet | Bibliothécaire Honoraire De La Bibliothèque Nationale | Membre De La Société Française D'Archéologie | [logo] | Caen | Henri Delesques, Imprimeur-Éditeur | Rue Froide, 2 Et 4 | [rule] | 1900

"Extrait du Compte-rendu du LXVe Congrès archéologique de France, tenu en 1898, à Bourges."

8°: [2 blank], [2], 19, [3 blank]p; first 2 f supplied; 2 photograv pls on heavy paper, tissues; 2 text figs. Pale gray wrap, cover title. 22.7 x 14.3 cm(8 7/8 x 5 5/8 in). Uncut. JSL.

Cont: blank f; tp; extract note; text; 3 blank p.

History, descriptions of cameos in the treasury of Bourges Cathedral.

688. BLANCHOD, FRED

Dr Fred. Blanchod | [rule] | Escales Chez Les | Pêcheurs De Perles | Arabie - Zanzibar - Maldives - Ceylan | Avec 32 Photographies En Hors Texte Et 1 Carte | [logo] | Librairie Payot | Lausanne - Genève - Neuchatel | Vevey - Montreux - Berne - Bale | [rule] | 1942 | Tous droits réservés pour tous pays.

8°: 205, [2], [1 blank]p; 32 photos on both sides of 8 glossy tip-in f; map. Print wrap, title & col ill of sailing fleet on cover; spine title; other publ bks back cover. 23 x 14.5 cm(9 x 5 3/4 in). Uncut. Paper Fr.6.-, cloth(not seen) Fr.8.50. JSL(paper).

Cont: 1/2tp; other bks of author; tp; dedic; 17 chs; biblio(p 206, 22 entries); tab cont; blank p.

Travelogue through Suez Canal to pearl-fishing ports in Red Sea, Persian Gulf, Zanzibar, Maldive Islands, thence to Ceylon. Describes the fisheries, particularly in the Bahrein area and in the Gulf of Manaar, Ceylon; brief account of thc gem mining around Ratnapura, Ceylon. Valuable chiefly for eyewitness account of methods of fishing.

689. -----1946, 2nd edit

Dr Fred Blanchod |... | Avec 32 Illustrations En Hors Texte Et 1 Carte | Édition définitive | [logo] | Librairie Payot | Lausanne | 1946 | Tous droits resérvés.

8°: 253, [2], [1 blank]p; same ills but map now faces p [7]. same wrap & p size; uncut. Broch Fr 9.-, cloth Fr 11.50. Reset & expanded in a few places; biblio now 33 entries.

690. BLANCHOT, I L

I.-L. Blanchot | [rule] | Les | Bijoux Anciens | Ouvrage Illustré De 48 Planches Hors Texte | En Héliogravure, Un Frontispiece En Couleurs | Et 16 Figures Dans Le Texte | [series logo] | Les Éditions Pittoresques | 101, Rue Du Faubourg-Saint Denis, Paris-X^{e} | [rule] | 1929

At head of title: "La Collection Des Collectionneurs | Publié sous la direction de I.-L.Blanchot | [rule] ..."

8°: 225, [1 blank]p; col front glossy pl tip-in; 48 brown-tinted grav pls on 24 bound-in f not includ in pag; 16 text figs. Heavy, stiff tan wrap, plain, enclosed in pale tan dec wrap, with Indian goddess in sepia on cover; spine title; other ser bks back cover; this wrapper, in turn, enveloped in transp tissue. 20.5 x 14 cm(8 1/8 x 5 1/2 in). Uncut. 30 fr. JSL.

Cont: 1/2tp; other author bks; pl; tp; publ data; tab cont; ill list; biblio(p 11-4, 60 entries); gloss; index of jeweler names; index of collector names; introd; 8 chs; blank p.

Thorough, authoritative work on ancient jewelry mostly from countries surrounding the Mediterrranean, and with lesser contributions on Oriental countries, some African civilizations, and American Indians. Helpful, practical, and by no means confined to mere discussion of styles & artistry, but giving advice to collectors, descriptions of frauds & fakes, classes of jewelry, its manufacture, and other topics. Jewelry gemstones are described on p 154-75 but the non-technical language emphasizes famous gems, persons connected with same, and some material on ancient gem materials and sources, and on curious lore.

691. BLANDING, DON

Don Blandings Book Of | Gems | And | Rocks | Where To Find Them. All U.S. | And Canada Locations. How | To Cut, Polish And Identify.. | 237 Gems | Listed [1969; title from wrap]

Cementb: 130 p (includes front cover but not back cover); 56 photos & diagrams. Stiff col paper wrap. 20.6 x 12.9 cm(8 x 5 in). $.75. JSL.

Cont: cover title; publ data inside front cover; tab cont & publ data; 14 chs; publ advert inside back cover.

Elementary text; chapters on collecting, lapidary & jewelry work, joining clubs, identification, localities by states, mineral dealers. Scope grandiose, text small.

BLANFORD, W T, see MEDLICOTT, H B

692. BLANK, EUGENE Diamond finds in the United States. *R & M*, 9, no 10, Oct 1934, p 147-50; no 11, 163-66, ill; no 12, 179-82, ca 50 refs; vol 10, no 1, Jan 1935, p 7-10, ill; no 2, 23-6, ill; no 3, 39-40, ill. An excellent summary.

693. BLANKENBURG, H J [et al] Quarzrohstoffe. VEB Deutscher Verlag für Grundstoffindustrie, Leipzig, 1978. 243 p, ills in b&w; Pfk 47. not seen. Rev M O'Donoghue, *J Gemm*, 16, 6, 1979, p 415-6, "useful survey of properties and synthesis of quartz with good illustrations of both natural and synthetic material. Details of occurrences and methods or recovery are given and there is a bibliography."

BLASDALE, W C, see LOUDERBACK, G D

694. BLATCHLEY, WILLIS STANLEY(1859-1940) Gold and diamonds in Indiana. *Ind Dept Geol and Nat Resources, 27th Ann Rpt*, W.S. Blatchley, State Geologist, 1902, Indianapolis, 1903, p 11-47, 3 figs, 4 pls. LC C.D. 18-208. JSL. Largely on meager quantities of alluvial gold found in the state but also containing the only competent account of diamonds in Indiana, reports of finds, sources, names of stones found, speculations on origin based on the glacial outwash theory of W H Hobbs, 1899, which see; large quotations from this paper are incorporated herein.

695. -----1962?, facsimile reprint, augmented. Centerstapled: p 11-47 +[1 blank], [3], [1 blank]p; same ills. + 2 sketch maps.

Heavy white paper wrap, title on cover with photo of gold panning on both covers; pref is inside front cover. 22.8 x 15.3 cm(9 x 6 in). Cut. $.30. JSL. The maps are added, one of state-wide locations, the other of gold areas in Brown and Morgan counties.

696. BLEASDALE, JOHN J

Intercolonial Exhibition Essays, 1866-67. | [orn rule] | No.4. | On Gems And Precious Stones | Found in Victoria. | [double rule] | By The Rev. John J. Bleasdale, D.D., | Fellow Of The Geological Society, And Of The Linnaean Society | Of London, &c. [1867]

Separate; from *Intercolonial Exhibition of Australasia, Melbourne, 1866-67. Official Record...* Melbourne: Blundell & Co., Printers. .. MDCCCLXVII; p [237]-48 and also numbered [1]-12 for separate issue. Also printed in "A report on the results of an Exhibition of gems, &c. ," *Trans Roy Soc Victoria*, 7, 1866, p 64-92; not seen.

Bleasdale, the Victoria expert on native gems, and contributor of many articles on same to Australian journals, here presents a summary, treating diamond, sapnhire, ruby, spinel, topaz, zircon, beryl, opal, garnet, tourmaline, pearl and quartz. In small type, hence much more data than pagination suggests.

697. -----1867, Fr transl

Exposition Intercoloniale, 1866 | [coat of arms] | Notes | Sur Les | Gemmes Et Les Pierres Precieuses | Trouvees Dans Victoria. | Par Le | Rev. Pere J.J. Bleasdale, | Docteur Divinité, Membre de la Société Géologique de Londres, | &c., &c., &c. | Traduit De L'Anglais Par E. Lissognol, | Secrétaire du Consulat de France à Melbourne. | [rule] | [dash] Facies Non Omnibus Una, | Nec Diversa Tamen; Qualem Decet Esse Sororum. | [rule] | Melbourne: | Masterman, Imprimeur, Brunswick Street, Fitzroy. | 1867.

8°: 15, [1 blank]p. Lemon-yellow print wrap(title in orn frame). 20.8 x 13.7 cm(8 1/4 x 5 3/8 in). Cut. USGS Kunz Coll GS 34-958.

BLECHSTEINER, H, see EPIPHANIUS: BLAKE, 1934.

698. BLEECK, A W G Die Jadeitlagerstätten in Upper Burma. *Zs Prakt Geol*, Berlin, 15, Nov 1907, p 341-65, pls 4-5, figs 95-100(includes 2 maps). Geological excursion to celebrated jadeite deposits of Burma: trip details, local geology(map), occurrences of ruby at E end of jadeite area. Tawmaw jadeite found in situ as well as in alluvium, also found S of Tawmaw in valley of Uru R; in alluvium nr Mamon, and SSE of this place recovered from a conglomerate at Hweka. Various types of jadeite described along with chemical analyses and properties; also tawmawite which B believed to be a chrome-bearing epidotic rock. BM(NH) copy Rev E Kaiser, *Zs Krist*, 47, 1910, p 401-2.

699. -----1908, Engl transl Jadeite in the Kachin Hills, Upper Burma. *Rec Geol Survey India*, 36, pt 4, 1908, p 254-85, pls 35-6(photos), 37-8(thin section photos and polished jadeite sections); 3 figs(map and sections). BM(NH); Yang, 1120. This vol also contains Bleeck's article "Rubies in the Kachin Hills, Upper Burma," pt 3, p 164-70; the tract is in Myitkyina district, most mines being nr Naniazeik, a village 12 mi E of Kamaing; another locality 4 mi N of Mainwe village; occurrences similar to Mogok.

700. BLENHEIM COLLECTION

Addressed To | His Grace | The Duke Of Marlborough | Thoughts | On The | Cameos And Intaglios Of Antiquity, | Suggested By | A Sight And Survey | Of | The Blenheim Collection. | By | A Lover Of The Fine Arts. | [rule] | Si qua sunt in universo Antiquitatum omnium generum Thesauro Monumenta, | in quibus prisci artifices, facile luxuriantes, ingenii libertate usi sunt, Gemmaria | Ars procuidubio primas tenet. Vide Gemmas Astriferas, a Gorio in Praef. | [rule] | Oxford, | Printed By W. Baxter. | 1847

8°: [2], 68 p. Heavy, pale tan wrap, cover title. 24.4 x 15.2 cm (9 5/8 x 6 in). Cut. USGS Kunz Coll.

Cont: tip-in prospectus; tp; part tp; text in 2 parts.

First part to p 30 a discourse on antique gems in general, stressing value in self-education; second part describes in considerable detail a proposed reprinting of the Marlborough Catalogue, *Delectus Gemmarum Marlburiensis*, according to the tipped-in prospectus. A curious piece about which I could learn nothing; it seems to be a proposal to reprint the famous engraved gem catalog but the reprint actually occurred in 1845 while this proposal is dated two years later!

BLESSINGTON, MARGUERITE, Countess of(1789-1849)

B Co Tipperary, Ireland; 2nd marriage to Earl of Blessington(d 1829); took up residence in London where celebrated for her beauty, social graces, and literary accomplishments; wrote several popular novels, contrib many arts to magazines; admired by Lord Byron. See large section, Allibone, 1, p 205-6; DNB; R R Madden, editor, *The Literary Life and Correspondence of...*, 3 vol, London, 1855.

701. -----1836.

Gems Of Beauty | Displayed In A Series Of | Twelve Highly Finished Engravings | From | Designs | By E.T.Parris, Esq. | With | Fanciful Illustrations, | In Verse, | By The Countess Of Blessington. | [rule] | ...[7 lines of verse]... | [rule] | London: | Longman, Rees, Orme, Brown, And Longman. | [rule] | M.DCCC.XXXMVI. [1836]

2°: blank f supplied + [1]f engrav title + [13]f letterpress, printed recto only, save for the titleleaf which is printed verso also; 12 steel engrav pls, each with blank protective f, all bound-in + [1]f blank, supplied. Pale olive-green cloth, elaborately blind-stamped over entire surface with floral pattern and ovals on covers, the front bearing ornamented title in gold. Pale yellow, glossy finish endp. 34.9 x 26.8 cm(13 3/4 x 10 1/2 in). Cut. Aeg. JSL.

An extremely handsome production designed to be a visual rather than an intellectual treat, the verses by B imparting no weighty information about gems but sometimes are augmented by footnotes citing curious lore from such writers as Cardan, Boodt, etc. The steel engravings, in the romantic, ethereal fashion of the Victorian Era, designed by E T Parris and most skilfully engraved by W H Mote, J Thomson, H Robinson, H Cook, and others, form the real substance of this work. The engraved title shows a dressing table and opened jewel casket before a mirror. The gems treated are diamond, ruby, emerald, sapphire, opal, pearl, turquoise, topaz, amethyst, sardonyx, aquamarine and cairngorm but are not depicted on the plates which mainly show smiling young ladies of remarkably regular features and beauty.



701. An illustration of an idealized Victorian England beauty according to Countess Blessington

702. BLIGH, A C V The Golden Quest. The roaring days of West Australian gold rushes and life in the pearling industry. Sydney, 1938, 8°: 10, 236 p, cloth, gilt, dw, endp maps. Not seen; from a bookseller's cat, 1973.

703. BLIGNAUT, ADI

The Gemstones | Of | Southern Africa | Prepared For A Joint Exhibition | By | The Geological Museum, Johannesburg | And | The Witwatersrand Gem And Mineral Club | Compiled By Adi Blignaut, F.G.A. | Geological Museum, | Johannesburg. | April 1961. [Wrap title only]

Edgestapled: mimeo(cyclostyled) leaves, printed recto only: 28 f; 30 figs(gem cut styles); pale green wrap. 25.3 x 20.4 cm(10 x 8 in).

Alphabetical listing with brief descriptions and sources, also a discussion of cutting styles, care of gems & jewelry, and a list of birthstones. JSL.

703-A. BLISS, ROBERT WOODS

Indigenous Art | Of | The Americas | [rule] | Collection Of | Robert Woods Bliss | National Gallery Of Art | Smithsonian Institution, Washington, D.C. | 1947

Acknowledgments & introduction, signed "R.W.B." indicate he is author.

8°:blank p + col photo +[3]p + blank p + p 3-159 + blank p + fold map tipped to blank f; front col photo + 9 col photos, ca 100 b&w photos. Tan, thick paper wrap, title & figure of bird on cover; tan endp; covers overlap text. Glossy paper,cut. 23 x 15.2 cm(9 x 6 in).

Cont: col front leaf(conjugate with text f); tp; publ data; tab cont; ackn; introd; pref & notes; cat tp; cat; provenances; classif; ill tp; ill; fold map. An "Addendum" slip tip-on p 22.

This is the first catalog of the celebrated Bliss collection of art of the natives of Columbia, the Maya, Mexico, Nicoya Peninsula(Costa Rica), Panama and Peru, with a few uncertains listed at the end. The "classification" leaf lists the materials from bone, bronze or copper, to woven fabrics, and including such gem and mineral materials as alabaster, stone, chalcedony, rock crystal, diopside-jadeite, jadeite, jasper, obsidian, and others. A major portion of the objects are manufactured from them. The color plates are muted in tone but pleasantly rendered while the other photographs are very good quality and illustrate their subjects adequately. A much more elaborate and better illustrated catalog, richly annotated, was prepared by S K Lothrop, et al, which see.

BLISS, R W, see LOTHROP, S K et al, 1957; also BENSON, E P & COE, M D

704. BLOCH, MARL ELIEZ Beytrag zur Naturgeschichte des Kopals. *Beschäftigungen der Berlinischen Ges Naturforschender Freunde*, Berlin, 2, 1776, p 91-196, pls 3-5. Not seen: from Scudder, *Bibliogr Fossil Insects*, p 98, which see; Scudder also notes "contains, pp. 164-190, Verzeichniss einiger merkwürdigen insekten, welche in kopal eingeschlossen, with rude figures."

705. BLOCHE, ARTHUR

La Vente | Des | Diamants | De La Couronne | Son Histoire | Ses Préparatifs, - Ses Résultats | Avec Le | Catalogue raisonné des Joyaux | Par | Arthur Bloche | [rule] | Précédé de la reproduction du Catalogue officiel et orné de 35 dessins | des principaux Bijoux | [orn rule] | Paris | Imprimerie Quantin | 7, Rue Saint-Benoit | [rule] | 1888

4°: IX, [1 blank], 108, [2], [2 blank]p; a blank f supplied at each end; 35 figs. Pale tan, paper wrap, title in red & black on cover; black title spine; logo back cover. 22.7 x 16 cm(9 x 6 1/4 in). Uncut. The text paper is remarkably thick and stiff. JSL.

Cont: blank f + 1/2tp; rights note; tp; dedic; pref; introd; catalog; destinations of certain unsold items; buyer list; tab cont; logo; blank f + blank f supplied.

The body of this work reproduces the official sale catalog for the dispersal of the French Crown jewels, Paris, 1887, but being published afterward, each entry includes date of sale and to whom sold. In addition, total sums for nine sales are given as well as a list of the items which were not included in the sale and where they were sent, eg, the Regent diamond, among other items, going to the Louvre and others to the Museum, School of Mines, Paris. The introduction contains information on the methods of display prior to the sale, sale preparations, the sales events, and reproductions of official documents concerning the sale. The illustrations are of important jewelry pieces and

obtained from the jewelers P-J and G Bapst. Valuable historical document; rare.

706. BLOMBERG, IVAN

[Cover title only:] All About The Petoskey Stone | Where To Find | How To Tumble | How To Cut | How To Polish | Petoskey Stone Jewelry | plus |Applicable Techniques For Semi-Precious | gem stones | by | Ivar Blomberg $1.00 [Priv publ, Petoskey, Michigan, 1972]

Centerstapled:19 p(includes front cover & inside back cover); 26 ills; photo of cabochon back cover. Pale yellow paper wrap. 21.4 x 14 cm (8 3/8 x 5 1/2 in). Cut. JSL.

Named after its finding place in Michigan, the petoskey stone is fossil(calcite)coral, *Hexagonaria percarinata* Sloss, much used for ornament and jewelry because of its attractive patterns.

707. BLONDEL, F, et al Les ressources minérales de la France d'outre-mer. *Bur d'Études Géol et Minières Coloniales Publ III*, Paris, 1935, 394 p. Contains: Lacroix, A, Les pierres précieuses, etc., p 267-324, which see. GS 33-41.

BLONDEL, SPIRE(1836-1900)

Fr writer on art; publ popular works on art objects and collecting, esp jewelry. *Dict Biogr Fr*, 6, 708.

708. -----1875

Le Jade | Étude Historique, Archéologique Et Littéraire | Sur La Pierre | Appelée Yū Par Les Chinois | Par | S. Blondel | [rule] | Paris | Ernest Leroux, Éditeur | Libraire De La Société Asiatique De Paris,| De L'École Des Langues Orientales Vivantes Et Des Sociétés Asiatiques De Calcutta, | De New-Haven (États-Unis), De Shanghai (Chine) | 28, Rue Bonaparte, 28 | rule] | 1875

8°: 30, [2 advert]p. Yellow wrap, cover title; adverts back cover. 24.6 x 16 cm(9 3/4 x 6 1/4 in). Uncut. USGS Kunz Coll; Yang 1121.

Cont: 1/2tp; print data; tp; dedic; text; adverts.

General remarks on jade, stressing mentions of jade and anecdotes concerning jade taken from older literature, including Chinese works; provides chemical analyses, describes instruments and implements of jade, early sources of nephrite, esp from Khotan, nephrites elsewhere from the world, lapidary treatment, Chinese carvings, and remarks on the great collections of carved jades. Sound treatise; often referred to by later writers.

709. -----1877, Engl transl. Jade. A historical, archaeological, and literary study of the mineral called yu by the Chinese. By S. Blondel, of Paris. *Ann Rept... Smithsonian Inst...* For The Year Ending June 30, 1876, Washington, Government Printing Office, 1877. Translated by Dr E Forman. P 402-18. LC S 15-425. JSL. Born, p 72; Yang 1121.

710. -----1875.

Histoire | Des | Éventails | Chez Tous Les Peuples Et A Toutes Les Époques | Ouvrage Illustrè De 50 Gravures | Et Suivi De Notices | Sur | L'Écaille, La Nacre Et L'Ivoire | Par | S. Blondel | L'éventail d'une belle est le sceptre du monde. | Sylvain Maréchal. | [logo] | Paris | Librairie Renouard | Henri Loones, Successeur | 6. Rue De Tournon, 6 | [rule] | 1875 | Tous droits réservés.

8°: [4], IV, 336 p; 50 wood engravs, some fullp. Originally in print wrap?- my copy,1/3 red morocco, marbled sides, 5 raised bands, gold lett & floral orn panels on spine; marbled endp. 23.5 x 15 cm(9 1/4 x 6 in). Teg; others uncut. A standard binding? JSL.

Cont: 1/2tp; tp; pref; 11 chs on fans; notes on tortoiseshell, nacre, ivory p [199]-306; index.

Fascinating treatise on the history and development of the fan in all its variations from antiquity to the present. Of particular interest, despite their brevity, are Blondel's remarks on tortoiseshell, nacre, and ivory, each being considered historically, citing references to same, ancient and modern, and commenting upon their true nature, manufacture, imitations, treatments, varieties, centers of manufacture, etc. Because of its peculiar usefulness for fans, ivory receives the greatest attention but that given to tortoiseshell is scarcely less because so little is to be found in the literature on this ornamental material.

BLOUNT, THOMAS POPE(1649-1697)

Engl politician, author; made baronet by Charles II; served several terms in Parliament and held important political posts in the central government. DNB.

711. -----1693

A | Natural History: | Containing | Many not Common | Observations : | Extracted out of the best | Modern Writers. | [rule] | By | Sir Thomas Pope Blount, Baronet. | [rule] | Faelix qui poyuit Rerum dignoscere Causas. | Virgil. | [rule] | London; | Printed for R. Bentley in Russel Street, in | Covent Garden. 1693. [title in double-rule frame]

8°: [16], 469, [3]p; A-Gg^8, Hh^4; Gg4 missigned. 15.7 x 9.3 cm (6 1/4 x 3 5/8 in), Cropped. Ward & Carozzi 227.

Cont: tp; dedic; pref; topics treated; text; catalog of plays.

Among the fifty-odd subjects, the following pertain to gemstones: amber, p 13-7, coral, 23-30, bezoar, 30-7, diamonds, 150-7, pearl, 158-70, gemstones of varied sorts, 170-82, and including agate, amethyst, rock crystal, emerald, ruby or carbuncle, balas ruby, sapphire and turquoise. Authorities cited include Pliny, Tavernier, Agricola, Chappuzeau and others.

BLUE, A, see MILLER, W G, 1899.

BLUETT AND SONS LTD, THE WAY COLL, see WONG COLLECTION.

712. BLUETT AND SONS, Dr. Newton's Zoo: A study of Post-Archaic small jade carvings, London, 1981, 48 pp, many b & w photos illust all 100 pcs, 4 col pls, 30 x 21 cm. Not seen: Han-Shan Tang List 28, London, 1985, no 5.

BLUM, JOHANN REINHARD(1802-1883)

B Hanau; prof mineralogy Heidelberg U. Necrol by H Rosenbusch, *Neues Jb Min*, 2, 1883, 8 pp; Pogg 3, 145-6.

713. -----1828.

Die | Schmuck-Steine | Und Derfn [sic] | Bearbeitung. | [double-rule] | Inaugural-Abhandlung | von | Dr. J. Reinhard Blum, | Mitglied der Wetterauischen Gesellschaft für die gesammten Naturkunde und der | mineralogischen Societät zu Jena. | [double-rule] | Heidelberg, | Bei J.C.B. Mohr. | [rule] | 1828.

All copies examined show the same misspelling in the title.

8°: 72 p; 4 engrav pls tip-ins at end of text. Blue paper wrap. 21.5 x 13 cm(8 1/2 x 9 1/8 in). Uncut. Dewalque 38; JSL.

Blum's first important work but far overshadowed by subsequent mineralogical treatises written during a distinguished career, notably his *Pseudomorphosen des Mineralreichs*, 1843, later appendixes. The present work is a careful synthesis of gemological/lapidary knowledge extant at the time of writing, coupled with firsthand knowledge gained by a residence of several years in a German jewelry center. Blum reviews the history of gems, citing numerous authorities in frequent footnotes, and compares modern and older ideas on the composition of gemstones, particularly the diamond, and also treats the properties of gemstones as color, hardness and density, occurrences of gemstones, nomenclature, prices, commerce, gem cutting and its early history, including engraved gems, remarks on cutting the diamond in antiquity, and the supposed discovery of the brilliant cut by Berquen. Particularly valuable are his descriptions of the apparatus, accessories, and methods of work employed by the lapidary and gem engraver in which much information, not readily available elsewhere, is provided. In this connection, the engraved plate shows cutting styles, several famous diamonds, a faceting bench, and a gem-engraver's bench. Rare.

714. -----1832.

Taschenbuch | der | Edelsteinkunde | für | Mineralogen, | Techniker, Künstler und Liebhaber | Der Edelsteine; | bearbeitet | von | Dr. J.Reinhard Blum, | Privat=Docent der Mineralogie an der Universität zu | Heidelberg, Mitglied der dasigen Gesellschaft für Natur= | wissenschaft und Heilkunde, der Wetterauischen Gesell= | schaft für die gesammte Naturkunde zu Hanau, und | der mineralogischen Societät zu Jena. | [long tapered rule] | Stuttgart, | bei Carl Hoffmann. | 1832.

8°: XVI, 356, [1], [1 blank], [2 advert]p; 6 fold engrav pls bound-in at end of text. My copy in contemp paper bds. 13.1 x 10.2 cm(5 1/8 x 4 in). Cut. I have also examined a copy in pale brown wrap, title & cut (upside down!) on cover in orn frame; spine title. 19.7 x 12.5 cm (7 3/4 x 4 7/8 in). Uncut. USGS Kunz Coll, GS 33-240; JSL.

Cont: tp; dedic; pref by Leonhard, C C; pref(with biblio, p VIII-X, 11 entries); tab cont; text; properties tab; index; errata; blank p; advert.

Based on Blum's first book of 1828 described above, the present work is the first of three editions of an important and influential popular treatise on gemology and one of the earliest published to take advantage of increasing scientific knowledge concerning minerals and their physical and optical properties. The first half of the text describes properties, gives determinative tests, discusses origin and classification of gemstones, then passes into the technology of lapidary work(large and detailed section), gem imperfections, imitations, prices and marketing. The remainder takes up individual gemstones, giving foreign language name equivalents, details on properties, sizes and occurrences, usual methods of cutting, and other useful information. Much space is devoted to members of the quartz family. The plates, rather simply done in outline style, depict several famous diamonds, diamond bruting, diamond cutter's bench, gem engraver's bench and tools, styles of cutting, crystal forms, a device for SG measurement, and more crystal forms on the last plate.

715. -----1834, 2nd edit

Taschenbuch |... | der mineralogischen Societät zu Jena. | Zweite Auflage. | [tapered rule] | Stuttgart, | Julius Weise. | 1834.

8°: XVI, 356, [1], [1 blank]p.; 6 fold pls. P size same; cont same. Merely a reprint. BM(NH); USGS GS 38-341.

716. -----1887, 3rd edit

Taschenbuch | der | Edelsteinkunde | für | Mineralogen, Techniker und Juweliere | bearbeitet | von | Dr. J.Reinhard Blum, | Professor der Mineralogie an der "Ruperto Carlo" Universität zu Heidelberg | und Mitglied verschiedener naturwissenschaftlicher Gesellschaften etc. | Dritte verbesserte Auflage. | [wood engrav of cut diamond] | Mit in den Text gedruckten Holzschnitten und sechs Steindrucktafeln. | [orn rule] | Leipzig, | Verlagsbuchhandlung von Carl Wilfferodt. | 1887

8°: X, 341, [1 advert]p; 11 figs; 6 pls bound-in at end of text. 18.7 x 11.8 cm(7 3/8 x 4 5/8 in). Cropped. BM(NH).

Cont: tp; fwd(with biblio, p IV-VI, 38 entries); tab cont; introd; text in 5 parts; append; list of publisher's bks; pls.

First three parts on crystallography, properties, optics & optical phenomena, chemistry, synthetics & imitations, history of gemstones, deposits & mining, nomenclature, lapidary work, chemical treatments, gem setting, flaws & inclusions, and distinction of glasses. The fourth part describes the commerce in gems and evaluation, while the last part describes the species and varieties; the appendix is on pearl and coral. This is the last edition to appear under Blum's name but a successor, by Wilhelm Rau, based on the above, also appeared in several subsequent editions (which see).

717. -----1840

Lithurgik | oder | Mineralien und Felsarten | nach ihrer | Anwendung in ökonomischer, artistischer und technisher | Hinsicht systematisch abgehandelt | von | Dr. J. Reinhard Blum, |...[6 lines of honors, etc.]... | [rule] | Mit 53 in den Text eingedruckten Figuren und 3 Stahlstichen. | [orn rule] | Stuttgart. | E. Schweizerbart's Verlagshandlung. | 1840.

Facing title: "Naturgeschichte | der | drei Reiche. | Zur | allgemeinen Belehrung | bearbeitet | von | G.W. Bischoff, J.R.Blum, H.G.Bronn, K.C.v.Leonhard, | F.S.Leuckart und F.S.Voigt. | [orn rule] | Supplement | zum | mineralogischen Theile. |... | 1840."

8°: VI, 501, [1 blank]p; 3 steel engrav pls bound-in at end of text; 53 figs. Contemp cloth, marbled bds. 21.1 x 12.7 cm(8 1/4 x 5 in). Cut. LC 3-22148; price Fl 3.12 Kr, Rthlr 2. Ward & Carozzi 228; JSL. LC 3-22148.

Cont: ser tp; tp; fwd; introd; winning of minerals; text in 2 major parts with numerous subdivs; addendum to para 238; tab cont; corrections; index; pls.

A fine early treatise on economic geology which places greatest emphasis upon the descriptions of minerals, earths, clays, etc and uses in arts & manufactures. Introductory material reviews methods of mining & quarrying, the tools & equipment, and methods of processing. The main body of text describes economically useful minerals and earth products, including structural materials, fuels, abrasives, ornamental stones, metals & ores, salts, pigments, pharmaceuticals, clays, etc. The part on ornamental stones includes jewelry stones as well as the coarser or massive types used for large ornaments or for decoration of

structures, p 190-245. This part includes lapidary work, gem cutting styles(text figs), gemstones properties, gem defects, commerce, etc., and obviously is patterned on Blum's previous books. Illustrations of famous diamonds appear on p 207-8, a table of SG p 242-5; cutting & polishing agents p 101-7; precious stones used in medicine p 411; brief notes on amber and meerschaum. The engraved plates depict stoping methods in mining, Corinthian columns, and Egyptian obelisks.

718. BLUM, R Über einen ausgezeichneten Topas-Kristall aus dem Ilmengebirge in Mineralien-Kabinet der Universität Heidelberg. *Neues Jb Min*, 1869, p 721-72. Not seen.

718A. BLUM, REINHARD; LEONHARD, GUSTAV; SEYFERT, AUGUST HERMANN & SÖCHTING, EDMUND

Die | Einschlusse Von Mineralien | In | Krystallisirten Mineralien, | Deren | Chemische Zusammensetzung | Und Die | Art Ihrer Entstehung. | [rule] | Drei Von Der Holländischen Societät Der Wissenschaften | Zu Haarlem Im Jahre 1853 Gekrönte Preisschriften. | [rule] | Von | Dr. Reinhard Blum, | Dr. Gustav Leonhard, | August Hermann Seyfert | Und | Edmund Söchting. | [orn rule] | Haarlem | Die Erben Loosjes. | In Commission Bei | Arnz & C° in Düsseldorf. | 1854.

In: "Natuurkundige Verhandelingen van de Hollandsche Maatschappij der Wetenschappen te Haarlem, Tweede Verzameling, Negende Deel, 1854." Separate.

4°: [10], 69, [1 blank]p + p[72-3], 74-166, [167-8] + col pl + p[168-71], 172-264 + Pls II-VIII; 7 of 8 pls part col. 28.5 x 22.5 cm(11 1/8 x 8 7/8 in). Cropped. Originally in printed wrap(?).

Cont: library entry slips; ser tp; Dutch tp; Ger tp; first pt tp; text; blank p; sec pt tp; quot; introd; text; index; pl; third pt tp; quot; text; description of pl figs; Pls II-VIII.

In a masterful introduction to the study of inclusions in crystallized minerals, the authors set forth the fundamental principles of paragenesis and evidences for same, and consider types of inclusions based on environment and type genesis, that is, whether the minerals were grown from solution or in an igneous rock mass. The first part gives 334 examples of inclusions, followed by a table of 107 others, a table of chemical groups into which fall the minerals containing inclusions, and copious notes. In the second part the authors begin with a short historical survey of knowledge of inclusions, mentioning Claudian to show that the ancients already knew of watery inclusions in rock crystal, and naming mineralogists and collectors thereafter, especially in the latter half of the 18th century, who remarked on inclusions or collected them with zeal and disregard of cost. Here figure such prominent authorities as Pini, Collini, Davila, Romé Delisle, Reuss, Jameson, and others. The text of the second part begins with quartz and no less than 43 examples are given of inclusions in rock crystal, amethyst, etc, followed by 13 in calcite, and numerous others in fluorite, barite, topaz, tourmaline, adularia, beryl, analcime, apophyllite, etc. The second part is concluded with a handsome colored plate of inclusions and phantoms in quartz, calcite, and fluorite. The third part begins with a further discussion and a list of periodicals which the authors searched. This is followed by examples of microscopic or "cryptic" inclusions, eg, sunstone, bronzite, and a brief note on diamond in which the "ashes of burnt diamonds showed traces of organic structure," a number of examples of phantom growth, and explanations of inclusion growth in minerals, eg, tourmaline, calcite,aragonite, garnet, fluorite, and others.

While the above is the first systematic monograph to describe and offer paragenetic theories of growth of inclusions it does not mention the work of David Brewster of Scotland who published important discoveries in his *Edinburgh Philosophical Journal*, from 1823 onward, especially recognizing two- and three-phase inclusions in topaz for example. See also SÖCHTING, J W E, 1860.

BLUMHOF, JOHANN GEORG LUDWIG [or LUDOLPH, Pogg I] (1774-1825)

B Hannover; early career as administrator iron works in Silbach; prof technol U Giessen from 1819.

719. -----1822

Lehrbuch der Lithurgik | oder der | angewandten Mineralogie. | Für | Kameralisten, Oekonomen, Technologen, | Metallurgen und Forstmänner. | [rule] | Zum Gebrauch bey Vorlesungen auf Universitäten, | Gymnasien und polytechnischen Lehranstalten | herausgegeben | von | Dr J. George Ludwig Blumhof, | Grossherzogl. Hessischen Hofkammerrathe, Professor der Technologie | und Bergwerkskunde zu Giessen, und Mitgliede mehrerer gelehrter | Gesellschaften. | [rule] | [rule] |Frankfurt am Main. | Bey Franz Varrentrapp. | 1822.

8°: XII, [2], 521, [1]p. Thin marbled bds. 22 x 13 cm(8 5/8 x 5 1/8 in). Uncut, unopened. JSL.

Cont: tp; dedic; fwd; index to materials according to uses; additions; text(in 354 sections under various divisions); index; corrections.

Economic geology containing numerous short sections on minerals, rocks, earths, clays, fuels, etc that find uses in arts & manufactures. The first portion, p 1-44, discusses properties & chemistry of minerals, and is followed by sections on diamond and many other gemstones, p 44-142; nephrite appears on p 213-4, amber p 315-23. Each is discussed from the mineralogical/geological viewpoint and economic uses indicated, even to the extent of describing methods of lapidary treatment if the material is amenable. A remarkable feature is the abundance of references, with each property of minerals or description followed by its own list of reference works, with the most important indicated in boldface. Probably there are several hundred references altogether. Rare.

BLUMHOF, J G L, see BRISSON, M J, 1795.

BLÜMNER, HUGO JOHANN FRIEDRICH DANIEL WILHELM FERDINAND(1844-1919)

Ger archeologist/philologist/historian, esp of ancient technology. NDB 2, 320.

720. -----1875-1887

Technologie Und Terminologie | Der | Gewerbe Und Künste | Bei | Griechen Und Römern | Von | Hugo Blumner. | [rule] | Erster [-Vierter] Band, | [rule] | Mit 53 [60,44,77] in den Text gedruckten Holzschnitten. | [logo] | Leipzig. | Druck Und Verlag Von B.G.Teubner. | 1875[-1887].

8°: Vol I: XII, 361, [1 blank]p, 53 fig; II, 1879, VIII, 396 p, 60 fig; III, 1884, VIII, 343, [1 blank]p + [6]p adverts, 44 fig; IV, 1887, XI, [1 blank], 629, [1 blank]p, 77 fig. 22 x 14.3 cm(8 3/4 x 5 5/8 in). Cropped. Orig issue in blue, printed

wraps, title on cover, in parts but paged continuously within each vol. LC G-1336.

Cont: Vol I, tp; fwd; tab cont; ill index; sects 1-8(with prospectus bound-in at end). II, tp dedic; tab cont; ill list; parts 9-12. III, tp; dedic; fwd; tab cont; ill list; part 13. IV, tp; dedic; fwd; tab cont; ill list; parts 14-16; addenda/corrigenda; indexes(subj, geograph, Greek terms,Latin terms); blank p.

Massive, erudite, richly annotated & referenced work describing the industrial arts of the Greeks and Romans, eg, bread making, textile fibers, fabrics & clothing,ceramics, wax & other soft materials, works in "hard" materials(stone, etc), wood working, animal materials(horn, bone, ivory, tortoiseshell, coral + amber) and working of same(II, sect 12, p 357-88), working of monumental, ornamental, and gem stones(III, sect 13, p 1-343), and in last volume arts of metallurgy and metal fabrication, including mining & smelting, glasses, enamels, and painting & pigments. Goodland, p 65. Because of its thoroughness and accuracy, this now standard work is much consulted and referenced; the gemologist, mineralogist, and geologist will find much of interest here, with the gemologist specially directed to organic products used in ornament in Vol II, section 12, where the materials are carefully described and their ancient sources located. The entire third volume is devoted to stones, minerals, and mineral products, with p 227-78 describing the most important precious & ornamental stones of antiquity, while p 279-313 explain tools, accessories and methods employed by the lapidary and gem engraver.

721. -----1885

Das Kunstgewerbe im Altertum | von | Prof.Dr.H.Blümner. | [rule] | I.Abteilung. | Das antike Kunstgewerbe nach seinen verschiedenen Zweigen. | [rule] | Mit 133 in den Text gedruckten Abbildungen. | [logo] | Leipzig: Prag: | G. Freytag. 1885 F. Tempsky.

"Das Wissen der Gegenwart Deutsche Universal=Bibliothek für Gebildete XXX.Band."

8°: [8], 267, [1] p; stapled sections; 133 fig. V dark greenish-blue cloth, elaborately embossed; gilt spine title. Adverts upon endp & flys; ae stained red. 18.3 x 12.6 cm(7 1/4 x 5 in). Paper browning. JSL.

Cont: 1/2tp; ser tp; tp; tab cont; ill list; introd; 8 chs; index; print data.

Das Kunstgewerbe im Altertum | ...| II.Abteilung. | Die Erzeugnisse des griechisch=italianischen Kunstgewerbes. |...

8°: [8], 234 p; 143 fig. Binding as above.

Cont: 1/2tp; ser tp; tp; tab cont; ill list; 8 chs; index.

Industrial arts in antiquity, I works in wood, ivory, horn, etc., also works in metals, engraved gems p 211-31, mosaics. II personal ornamentation, p 175-210, mostly work in gold, also rings.

BOARDMAN, JOHN

Lincoln Professor of classical archaeology Univ Oxford; fellow Lincoln Coll, Oxford.

722. -----1963 Island Gems: a study of Greek seals in the geometric and early archaic periods. London, 1963. 176 p, 20 pls, 18 text figs; paper wrap. 22 x 14.5 cm. Not seen; from bookseller's cat of 1984.

723. -----1968

Engraved Gems | The Ionides Collection | John Boardman | photographs by | Robert L. Wilkins | [logo] | Thames & Hudson · London [1968]

8°: 114, [2 blank]p (first f also blank); col photo front tip-in pl, 8 other col photos on 2 glossy tip-in f; 128 b&w photos on 15 bound-in glossy f & includ in pag, p [59-88]; another glossy f precedes this section, p [57-58] and bears lett. Blue buckram, gold logo on cover, gold lett spine. White dj, 2 col photos on cover & black lett; logo back cover; flap resume, advert. Top & bottom of dj folded under. 24.8 x 18.8 cm(9 3/4 x 7 3/8 in). Cut. £ 5-5s. JSL.

Cont: blank f; 1/2tp; pl; tp; publ data; tab cont; 6 chs; pls section; catalog & notes; biblio(p 111-12, 16 entries); ackn; indexes (motif, inscripts, etc); blank f.

Introductory chapter is a brief general essay on engraved gems: types, materials, mountings, uses, etc, followed by chapters commenting upon Greek, Etruscan, Hellenistic, Roman and post-antique gems, with Ch 6 being a history of the collection in which we learn that the collection was begun by Alexander Ionides(1833-1900) and continued by his son, Alexander Constantine(1862-1931), thence passing into the possession of the Victoria & Albert Museum, London. The plates depict numerous gems in natural size. Rev *J Gemm*, 11, 3, 1968, p 95.

724. -----1968, Northwestern Univ Press edit

Engraved Gems |... | Robert L. Wilkins | Northwestern University Press · Evanston | 1968

Gold title, new publ on spine; plain covers; dj with new data & no longer folding inward from the top & bottom. LC 68-17325.

725. ----- 1968.

Archaic Greek Gems | Schools and Artists in the Sixth and | Early Fifth Centuries BC | John Boardman | [logo] | Thames And Hudson · London [1968]

8°: 236 p; tip-in glossy col front pl, 3 fig; 10 photos in col on 2 tip-in glossy f; 40 b&w glossy photo pls on 20 bound-in f, numbered I-XL but also includ in pag(ca 370 individ photos, many with several gems each). Dull red-maroon cloth, gold cover logo; gold spine lett. White dj, 4 col photos on cover, black lett; logo back cover; flap resume, advert. Top & bottom of dj folded inward. 24.8 x 18.7 cm(9 3/4 x 7 3/8 in). Cut £ 6-6s. JSL.

Cont: 1/2tp; pl; tp; publ data; tab cont; pref; 15 chs; pls sect; ackn; abbrev list; indexes.

"The first and the definitive account of Greek gems of the sixth and early fifth centuries BC." Stresses origins of the engraver's art and styles developed in Greece as compared to developments elsewhere. Gems are discussed by subjects in some instances, and by geographical areas in others, with a final chapter summing up findings and conclusions. This last chapter provides some notes on the techniques of engraving and materials used. Photos clear & sharp; b&w photos taken mainly of casts. Abbreviations section, p 225-27, merely mentions authors and titles. Rev *J Gemm*, 11, 4, 1968, p 129-30; Arntzen P 598; *Austral Gemm*, 10, 9, 1973, p 24.


МИНИСТЕРСТВО ГЕОЛОГИИ И ОХРАНЫ НЕДР СССР

А.П. БОБРИЕВИЧ, М.Н. БОНДАРЕНКО,
М.А. ГНЕВУШЕВ, Л.М. КРАСОВ,
Г.И. СМИРНОВ, Р.К. ЮРКЕВИЧ

АЛМАЗНЫЕ
МЕСТОРОЖДЕНИЯ
ЯКУТИИ

Научный редактор
академик В. С. СОБОЛЕВ

Государственное научно-техническое издательство
литературы по геологии и охране недр
Москва 1959

732. Bobrievich and others wrote this massive description of diamond deposits in Siberia's Yakutia region. The title lines are in blue

726. -----1968, Northwestern Univ Press edit

Archaic Greek Gems |... | John Boardman | Northwestern University Press | Evanston. 1968

Gold title, new publ on spine; plain covers; dj new data and flaps no longer folding inward. LC 68-25581.

727. -----1970.

Greek Gems | and | Finger Rings | Early Bronze Age to Late Classical | John Boardman | photographs by | Robert L.Wilkins | 51 Plates In Colour | 1016 Photographs | 318 Line Drawings | [logo] | Thames And Hudson · London [1970]

8°: 458 p; 318 figs; 51 col photos on 9 tip-in glossy f; 1016 b&w photos on 60 bound-in glossy f and includ in pag. Pale blue buckram, gold logo on cover, gold spine title. Pale gray-blue dj, white logo on back cover; flap resume, advert. 30.4 x 23.4 cm(12 x 9 1/4 in). Cut. £ l8.90 or £ 18-18s net in UK only. ISBN 0 500 16015 5. JSL; Arntzen P599.

Cont: 1/2tp; tp; publ data; dedic; tab cont; pref; ackn; 8 chs; summaries of shapes; notes; indexes(abbrev p 450-1, ca 110 entries).

"This book is the first in over half a century to present a comprehensive account of the art in Greek lands from the Early Bronze Age down to the Hellenistic period." The brief introduction provides generalities on use of engraved gems, types, value in archeological studies, problems of identification and dating, fakes, etc. The text proper comprises the remaining seven chapters, treating Minoan and Mycenaean gems, early archaic gems, especially "geometric" seals and island gems, other archaic examples as well as finger rings, and ending with a most interesting final chapter on the materials and techniques of gem engraving. Descriptions of examples are detailed, provenances given, and references made to appropriate illustrations which are conveniently distributed throughout for easy consultation. Excellent introductory statements at chapter commencements. The final materials/techniques chapter notes that engravers avoided use of excessively hard gemstones and favored those of "steatite" (actually, serpentine in most instances), but also crystalline quartzes and especially the cryptocrystalline quartz varieties. Appended to the text are several diagrams of shapes that were adopted for gems and rings, also notes on the text, several indexes, and a gazetteer of notable engraved gem collections, p 452-54, but omitting unpublished private collections and collections with only Roman gems and, unfortunately, without much specific information on where such collections are and if accessible.

728. -----1972(?), New York edit

Greek Gems |... | Robert L. Wilkins | Harry N. Abrams, Inc. Publishers, New York [nd, 1972?]

Dj white, plastic-coated paper; 4 col photos on cover; pale gray spine with white lett. ISBN 8109-0159-5; LC 72-106517. JSL. Similar cloth, unfinished, covers plain.

729. -----1975

Intaglios and rings: Greek, Etruscan and Eastern from a private collection. London: Thames & Hudson, 1975, cloth, 285 ill(10 col). £ 18.00. Not seen; from bookseller's catalog 1975.

BOARDMAN, J, see AMIET, P, et al

730. BOARDMAN, JOHN & SCARISBRICK, DIANA

The | Ralph Harari | Collection | Of Finger Rings | John Boardman | and | Diana Scarisbrick | with 382 illustrations | [logo] | Thames And Hudson [1977]

8°: 149, [3 blank]p; 10 col photos on 2 tip-in glossy f; text fig; 282 b&w photos on 26 bound-in glossy f. Brown cloth, gilt spine title; gilt logo on cover; col dj, ring photos on front; red panel on back with logo; flap resume and other publ bks. 24.8 x 18.7 cm(9 3/4 x 7 3/8 in). Cut. £ 16.00. JSL.

Cont: 1/2tp; tp; publ data; tab cont; pref; ackn; abbrev(biblio p 11-12, 37 entries); catalog of 216 entries; pls tp; pls; index; principal inscriptions; 3 blank p.

Describes collection of Colonel Ralph Andrew Harari (1893-1969), economist of Egyptian extraction; additional biographical details on p 7-9. Treats classes of rings, many with gems, eg, Greek with intaglios and cameos, Etruscan scarabs and rings, Hellenistic, Italic, Roman intaglios and cameos, rings

from ancient Near East and Egypt, Sassanian intaglios, Byzantine and Merovingian rings and gems, and some modern examples. Descriptions detailed, with data on size, stone, inscription, provenance, references, etc. photographs good to very good. In 1975 the collection passed into the possession of S.J.Phillips Ltd. of London.

731. BOARDMAN, JOHN & VOLLENWEIDER, MARIE-LOUISE

Ashmolean Museum · Oxford | [rule] | Catalogue Of The | Engraved Gems | And | Finger Rings | I. Greek And Etruscan | By | John Boardman | And | Marie-Louise Vollenweider | Oxford | At The Clarendon Press | 1978

4°: xii, 122, [2 blank]p + 64 pls(each with many photos) on both sides of 32 bound-in f; 13 text fig. V dark blue cloth, gilt spine title. Dk purple dj, white & purple lett & photo on cover; spine title. 27.5 x 21.7 cm(10 7/8 x 8 1/2 in). Cut. USA $75.00 ca. BLC 77-30290; ISBN 0-19- 813195-x; JSL.

Cont: 1/2tp; tp; publ data; pref; tab cont; figs list; abbrev; 8 chs; indexes; concordance list; blank f; pls.

"The Oxford University collection of Greek, Etruscan and Roman gems and rings is one of the most representative in the world... the present work offers full descriptions, comment and enlarged photographs of the 358 Greek and Etruscan engraved gems, scarabs and rings, from the eighth-century B.C. to the end of the Hellenistic period;" from dj flap. Many gems were obtained through the collecting activities of Arthur Evans upon Crete (Knossos) and includes gifts of Greville Chester and the Charles Drury Fortnum great collection of finger rings.

732. BOBRIEVICH, A P, et al

Ministerstvo Geologii I Okhrany Nedr SSSR | A.P.Bobrievich, M.N. Bondarenko, | M.A.Gnevushev, L.M.Krasov, | G.I.Smirnov, R.K.Iurkevich | Almaznye | Mestorozhdeniya | Yakutii | Nauchnyi redaktor | akademik V.S.Sobolev | Gosudarstvennoe Nauchno-Tekhnicheskoe Izdatelstvo | Literatury Po Geologii I Okhrane Nedr | Moskva 1959 [title in blue & black]

8°: 528 p; col front pl tip-in; 333 ill(includes 28 col pls & 13 col maps, most fold tip-ins), 116 tabs. Brown cloth, black lett & yellow dots on cover; black panel on spine with yellow lett & dots; blind lett back cover. Pale tan endp, dec with black & blue bands, diamond crystals. 25.7 x 17 cm(10 1/8 x 6 3/4 in). Cut. 52r 30k. 7,000 copies. LC 60-20544. JSL.

Cont: pl; tp; pref; 26 chs; biblio(p 515-25, 337 entries); tab cont; publ data; errata slip(loose).

Detailed, very thorough description of diamond deposits in Yakutia region of Siberia. Treats geology, crystal rocks, formations in which pipes intruded, petrography & mineralogy of kimberlites, mineralogy of diamonds, diamond crystal morphology, surface features, luminescence & optical properties, inclusions. Poorly reproduced photographs, many being blurred or otherwise defective. Rev *Econ Geol*, 53, 1958, p 220-1; *Min Abstr* 14, 7, 1960, p 461.

733. BOBRIEVICH, A P, et al

A.P.Bobrievich, I.P.Ilupin, I.T.Kozlov, L.I.Lebedeva, | A.A.Pankratov, G.I.Smirnov, A.D.Kharkiv | Petrografiya I Mineralogiya | Kimberlitovykh Porod | Yakutii | Nauchnye Redaktor Akademik V.C.Sobolev | [logo] | Izdatelstvo "NEDRA" | Moskva 1964

At head of title: "Glavgeologiya RSFSR | Yakutskoe Geologicheskoe Upravlenie | Amakinskaya Ekspeditsiya "

8°: 189, [3]p; 46 fig(1 fold); 57 tabs(1 fold). V pale green paper over bds; black cloth spine with silver orns; cover title. 25.5 x 17 cm (10 x 6 3/4 in). Cut. 98k. 2700 copies. JSL.

Cont: tp; pref; survey; 2 parts; biblio(p 184-90, 225 entries); tab cont; publ data.

In two parts; first on petrography of the kimberlites of Yakutia and the second on the mineralogy of the diamond associates or found as inclusions in the rock; the diamond itself receives little notice.

BOCCONE or BOCCONI, PAOLO SYLVIO (1633-1703 or 1704)

B of a noble family Palermo, Sicily; from youth became intensely interested in study of natural history, traveling widely in Europe to examine objects; a keen observer and able to draw many correct conclusions from his observations; became doctor and prof botany Univ Padua; publ numerous books, articles on natural history. *Biogr Univ*, 4, p 625-6; Pogg I.

734. -----1671 Recherches et observations naturelles touchant le corail, la pierre etoilée, ... [etc]. Paris, 1671. Not seen. Agassiz I, 332 gives 1670.

735. -----1674, Amsterdam edit

Recherches | Et | Observations | Naturelles | De Monsieur Boccone | Gentilhomme Sicilien; | Touchant | Le Corail, la pierre Etoilée, les Pierres de figure de | Coquilles, la Corne d'Ammon, l'Astroïte Undula- | tus, les Dents de Poissons pétrifées, les Herissons | alterez, l'Embrasement du Mont Etna, la Sangsüe | du Xiphias, l'Alcyoium stupposum, le Bezoar Mi- | neral, | les Plantes qu'on trouve dans la Sicile, avec | quelques Reflexions sur la Vegetation des Plantes. | Examinées a diverses sois dans l'Assemblée de Messieurs de So- | cieté Royale de Londres, & Conferences dans les | de Monsieur l'Abbé Bourdelot a Paris. | Woodcut orn] | A Amsterdam. | [rule] | Chez Jean Jansson à Wasberge l'An 1674.

8°: [8], 328 p; $*^4$ A-V^8, X^4; 14 engrav pls(2 fold). 14.2 x 9.1 cm (5 5/8 x 3 5/8 in). Cut. USGS Kunz Coll, GS-2O6; Dewalque 2715;Agassiz I, 332.

Cont: engrav 1/2tp; tp; dedic; pref; text.

A miscellany of observations on many natural history topics, including coral, p 1-43, with 3 pls, the "star stone" or fossilized coral, various figured stones, fossils, and fossilized fish teeth, etc, all of which at some time or other have been included in older works on gemstones.

736. -----1744, Amsterdam edit, Dutch. Not seen

737. -----1684

Osservazioni | Natvrali | Ove Si Contengono | Materie Medico-Fisiche, e di | Botanica, | Produzioni Naturali, Fosfori di- | versi, Fuochi sotteranei | d'Italia, & altre | curiosità | Disposte In Trattati | Familiari | Da D.Paolo Boccone, | E dirette a varij Cavalierj, e Letterati | del nostro Secole, si condo lo stile delle | Accademie Fisico-Mattemata- | tiche d'Europa. | [woodcut orn] | In Bologna per li Manolessi Stamp. Camer. | [rule] | Con licenza de' Superiori, 1684.

12°: [12], 400 p.; A^6 A-Q^{12}, R^8; 2 engrav pls bound-in, one after dedic, the other facing p 228. Vellum. 15.9 x 8 cm(6 1/4 x 3 1/4 in). Cropped. BM(NH); JSL.

Cont: tp; dedic; pl; tab cont; imprimatur; fwd; text of 26 "observations."

Essays on natural history and medicine, including one on bezoar, p 106-9, another on p 379-400; important essay on Italian amber p 151-61, perhaps the first to be made on this variety by a competent scientist: compares this amber to that of Prussia and to jet, gives details on localities in Italy where both have been found, particularly in Sicily. Boccone suggests that amber is a condensate from distillation of natural bitumens, thus adding a hypothesis of origin which with others that were subsequently proven invalid, fueled a controversy not settled until the 19th century. Notes phosphorescence of massive barite or the famous "Bologna stone," p 224-48, in which place is one of the engraved plates depicting concretions, whole & broken, showing radiate structure of massive Bolognese barite. The frontispiece plate depicts several bezoars in addition to other objects. Brief summary of this work in *Phil Trans Roy Soc, Abridged*, 3, 1809, p 6 13-4.

738. -----1697, Ger transl. Sylvi Bocconis Curiose Anmerckungen uber ein un ander naturliche Dinge. Aus seinem nock nie im Druck gewesenen Museo, experimentaliphysico zusammen gezogen, und im Durchreisen durch Teitschland, zum Andencken seiner in Teutscher Sprach zum Druck hinterlassen. Franckfurt, M. Rohrlachs seel. Wittib, 1697. 501 pp., ill., portr. Not seen: entry from Ward & Carozzi 239.

BOCK, FRIEDRICH SAMUEL(1716-1786)

Ger classicist; prof theol & Greek U Königsberg & Librarian; wrote numerous important theol, hist, nat hist works, esp nat hist of Prussia. Biogr Univ, 4, p 629-30.

739. -----1767

Versuch |einer kurzen | Naturgeschichte |des | Preussischen Bernsteins | und seiner | neuen wahrscheinlichen Erklärung | seines Ursprunges, | [woodcut vign] | von | Friedrich Samuel Bock. | [double rule] | Königsberg, | bey J.D.Zeisens Wittwe und J.H. Hartungs Erben. 1767.

8°: 146 p; ch orns. 20.4 x 12.4 cm(8 x 4 7/8 in). Cut. USGS Kunz Coll, GS 34-707; Ward & Carozzi 240; De Golyer Coll, U Okla

Cont: tp; 6 chs; catalog of ambers in a private cabinet.

Important; Bock first takes up a criticism of early writings on amber, the nomenclature, amber history, references to the literature, p 12-16, ca 50 entries, then goes on in the second chapter to compare and discuss the various opinions and theories that have been advanced to explain the origin of amber, and especially taking strong exception to the idea that amber was formed from a kind of petroleum. The third chapter cites observed facts concerning amber occurrences, while the fourth chapter, geological in nature, describes the inner and surficial structure of the earth, surface changes, etc, to lay a foundation for his conclusion in ch 5, that amber could only be vegetable in origin. The final chapter is an appendix systematically classifying amber specimens in the natural history cabinet of a certain Commercial-Counselor Saturgus. Bock's treatise was highly regarded by J F John in his *Naturgeschichte des Succins*, 1, 1816, p 88-92, which see, noting that Bock "pleaded the vegetable origin of amber very convincingly," and inserting generous quotations from Bock to use in his own text. S H Scudder, *Bibliography of Fossil Insects*, 1890, p 61.

740. -----1781 Über zwei Stücke Holz, so von Bernstein durchdringen sind, nebst einiger Anmerkungen über den Ursprung des Bernsteins in Preussen. *Der Naturforscher*, Halle, Stuck 16, p 57-70. Not seen.

741. BOCK, FR Die Kleinodien des heiligen römischen Reiches... Les Joyaux de la couronne du Saint-Empire romain... avec les insignes des royaumes de Bohême, de Hongrie, de Lombardie, accompagnés des commentaires historiques et artistiques de François Bock, chanoine de l'ancienne église du couronnement des rois allemands à Aix-la-Chapelle. Vienne(Leipzig, Weigel), 1864, gr. in-fol., 47 pls. en chromo et 170 gr. s.b. - 825 fr.

Not seen, from Vinet 1966: "sumptious publication ... illustrating the jewels and insignias... used with the coronation of ancient emperors of Germany."

BOCK, GISELA REINEKING VON

Ger art historian; employed 15 yrs in Kunstgewerbe Mus, Cologne; org an exhibit of amber 1979; author of bks, catalogs, articles.

742. -----1981

Gisela Reineking von Bock | Bernstein | Das Gold der Ostsee | Callway Verlag Munchen [1981]

8°:185, [3 blank]p; 7 text fig(4 sk maps); 299 photos(21 col) on glossy f forming p 49-168. Col photo paper much thicker than that used elsewhere. Bright, slightly brownish-orange clothlike paper over bds, black pendant back cover; black spine title. Col dj, col photos both covers; flap resume, vita, other publ bks. 20 x 24.9 cm(11 x 9 3/4 in). Cut. ISBN 3 7667 0557 1; JSL. DM 98.

Cont: 1/2tp; tp; publ data; tab cont; fwd; introd; text to p 46; notes; pls; appendix tp; biblio(p 170-82, 14 periodicals, 98 entries before 1850(chronologically), 674 after 1850(alphabetically), + 5 exhibit catalogs); index; photo ackn; 3 blank p.

Lavishly illustrated, beautifully done history of amber as employed in the decorative and jewelry arts; claims to be the first truly comprehensive work treating the subject from the Stone Age to the present, and superseding similar earlier works of Pelka(1920) and Rohde(1927), which see. Descriptions consist mostly of detailed captions to the excellent photographs while the main text provides a historical introduction to our knowledge of amber, its origin, distribution, esp Baltic amber, amber in other world deposits, fossils & inclusions, mining & commerce, development of art forms in amber(a large section), weathering & alteration, pressed amber, amber compared to copal, plastics, glasses, etc. Plates depict amber pieces from all ages, including objects assembled from small pieces of amber, inlays, amber used with other materials, modern pieces, and many others, all presented in a tasteful manner. The very extensive bibliography appears to be the largest that I know of but not all items are fully paginated and there are omissions of some important works as well as a few spelling errors.

BÖCKELMANN, S, see FENTSCH, C B

743. BODDAERT, PIETER (ca 1730-ca 1790). Verhandeling over de edele steenen. *Geneeskundige Jaarboeken*, 2

deel, p 73-96, 162-71, 189-205, 278-90, 420- 38. Not seen, from BANKS, p 83, which gives no date. The author was a Dutch physician & naturalist; *Biogr Univ*, 58, p 411-2.

744. BÖDIKER, CARL(1868-)

Die Verwertung | der | südwestafrikanischen Diamanten. | [rule] | Vortrag, | gehalten im Deutschnationalen Kolonialverein zu Berlin | am 17. April 1912 | von | Carl Bödiker | Hamburg. | [rule] | Berlin. | Verlag der Deutschen Kanzlei. | 1912. [Cover title only]

Centerstapled: 23, [1]p. Pale green wrap. 21.6 x 14 cm(8 1/2 x 5 1/2 in). Cut. USGS Kunz Coll, GS 34-890. PJ Hugo et al, 0254.

History of the discovery and development of the diamond deposits of South West Africa while under German colonial rule: production figures, functioning of the monopoly "Diamantregie," recommendations.

745. BODMER-BEDER, A Petrographische Untersuchungen von Steinwerkzeugen und ihrere Rohmaterialen aus schweizerischen Pfahlbaustätten. *Neues Jb Min*, B-Bd 16, 1903, p 166-98, Pls 3-6. Petrographic thin-section(photos) studies of stone artifacts at Swiss lake dwellings: nephrite, chloro- melanite, jadeitic pyroxenite, eclogite, peridotite, etc; gives analyses, properties, and comparisons to materials found elsewhere.

746. BOESEN, GUDMUND

Billeder Fra | Rosenborg | Tekst ved | Gudmund Boesen | [logo] | J.H.Schultz A/S | 1948 [København]

4°:25 (first 2 p blank), [1 blank], [1], [1 blank]p + 36 pls(4 col)on as many bound-in f + [1], [1 blank]p. Mottled blue paper over bds, heavy, parchment-type paper spine with gold title. Pale orange-red dj, white stylized outlines of castle on front; black spine title. 24.3 x 15.7 cm(9 5/8 x 6 1/4 in). Cut. Pale tan paper. JSL.

Photographic views of Rosenborg Castle and interior as well as outstanding objects housed therein, particularly belonging to the Danish Crown, and including crowns, regalia, jewels, ornamental objects. Color plates of a crown, gold cup, royal order, and necklace. High quality work, well done.

BOESEN, G, see STEINGRÄBER, E, 1968

747. BOETTGER, C R Flussperlmuschel und Perlen-fischerei in der Lüneberger Heide. Abhandl *Braunschweigischen Wissenschaftlichen Ges*, Braunschweig, 6, 1954, p 1-40. Not seen.

748. BOGDANOVICH, KARL IVANOVICH Poezdka na biryuzovye kopi Maadena, vozle Nishapura v Persii. *Gorny Zhurnal,* Izdavaemy Uchenim Komitetom, Korpus Gornikh Injenerov, St Petersburg, 4, 1888, p 330-55. Turquoise and its mining near Nishapur, Persia; not seen.

749. -----1892 Mestorozhdeniya nefrita v Kuen-Lune. *Zapiski Imperatorskago S Peterburgskogo Mineralogicheskogo Obshchestva*, ser 2, vol 29, 1892, p 153-62. Describes 7 primary nephrite deposits in the basins of the following Kuen-Luen Mountain rivers: Yarkand-Daria, Tysnab, Kara-Kash, Yarun-Kash, Keria-Daria, Kara-Muran, and Tatlik-Su. Alluvial deposits occur mainly in Yurun-Kash, Kara-Kash, and Tysnab. Gives types of nephrite found, from primary as well as secondary deposits, with Chinese names; nephrite in the Kuen-Luen occurs principally in pyroxenitic rocks. Orig ref not seen: above from summary, *Zs Krist*, 24, 1895, p 515.

750. -----1894 Ueber die sibirischen Nephrite. *Verhandlungen der Kaiserliche Gesellschaft für die Gesammte Mineralogie zu St Petersburg*, 31, 1894, p 419-27. Concludes that the principal nephrite deposit lies in a contact zone between amphibolitic-pyroxenitic rocks and serpentine on the one hand and crystalline schists on the other.

751. BØGGILD, O B On the labradorization of the feldspars. *Kongelige Danske Videnskabernes Selskabs Math-Fys Meddel*, Kjøbenhavn, 6, 3, 1924, 79 p, 1 pl, 3 text figs. Intensive, detailed study labradorescence in labradorite and other feldspars.

BÖHM, J, see KAISER, E, et al, 1926.

752. BOISMENU, E DE

E. De Boismenu | [rule] | Fabrication Synthétique | Du | Diamant | [rule] | Avec 66 Figures Dans Le Texte | [orn rule] | Paris | Libraire Bernard Tignol | Publications De | L'École Centrale Des Arts Et Manufactures | 53bis, Quai Des Grands-Augustins [1913]

At head of title: "Bibliotheque Des Actualities Industrielles, N° 115 | [rule] ..."

8°:[3], [1 blank], 122 p; 66 fig. Dull orange print wrap, title & photo of diamonds on cover. 23 x 15.2 cm(8 3/4 x 6 in). Cropped. 5 fr. JSL.

Cont: 1/2tp; advert; tp; 10 chs; conclusions; tab cont.

Believes synthesis of diamond entirely possible, citing "success" of Moissan and Rousseau but points out inutility of pressure/sudden chill method of Moissan. Gives information on probable origin of diamond in nature, speculates on a carbon liquid state, energy required for crystallization, and methods he used to synthesize diamonds which he believed he had accomplished. Final chapters report analyses of his "diamonds" by A Lacroix and Maquenne, and his publication announcing his work and results. Boismenu did not succeed, as is known now. Historically important; rare.

753. BOLDYREV, A K & LUI, Ya A Razvedka kopennykh mestorozhdenii rud volframa, olova, vismuta i berilliya na Sherlovoi gore v Zabaikale i dopolnitelnye dannye razvedki rossypei tam zhe v 1928 i 1929 gg. *Gornyi Zhurnal*, 1929, nos 8-9, p 1338-64. Tungsten, tin, bismuth minerals and beryl on Schorl Mt, Siberia; not seen.

754. BOLEZNY, I Manufacture of artificial gemstones. *Research Service Bibliographies*, No 119, ser 4, compiled under auspices State Library of South Australia, Adelaide, 1969, 38 p. Rev M O'Donoghue, *J Gemm*, 13, 5, 1973, p 186-7. Periodical arts & bks publ 1927-69. Not seen.

BOLLNER, J, see BIRNBAUM, C

755. BOLMAN, J

De Edelsteenen | Uit Den Bijbel | gezien in het licht der hedendaagsche | Edelsteenkunde | Door | J.Bolman | Directeur Laboratorium v/h "Nederlandsch Institut | voor

wetenschappelijk onderzoek van Edelsteenen | Paarlen, gevestigd te Leiden" | Lid der Internationale Organisatie van Hoofden van | Laboratoria voor wetenschappelijk edelsteen- en | paarlonderzoek | [logo] | Met Een Voorwoord Van | Dr W.D. Van Wijngaarden | Conservateur aan het Rijksmuseum van Oudheden te Leiden | [orn rule] | H.J.Paris Amsterdam MCMXXXVIII [1938]

8°:138, [2 blank]p (p [1-2] blank). Tan, unfinished cloth, gold vertical rules & title in black, gold brilliant gem on cover; green unfinished cloth spine, gold title. Blind logo back cover. Pale gray endp. 22.8 x 15.2 cm(9 x 6 in). Te stained pale gray. Cut. JSL.

Cont: blank f; 1/2tp; tp; fwd; tab cont; introd; 4 chs; conclusion; tab Bible gemstones; biblio(p 136-8, 73 entries); blank f.

On the basis of a careful search of the pertinent literature, Bolman attempts to identify the gemstones mentioned in the Bible. His conclusions on the identities of the 12 breastplate stones are summed up in the comparative list in the table on p 135. The introductory chapter reviews the literature while the following chapters study the specific stones (and possible alternates), taking them up as mentioned in the Old and New Testaments, and with sections arranged according to Hebrew names. Handsomely produced work, with much useful information, but marred in places by errors and an unneeded terseness in bibliography entries.

756. -----1938

De Edel- En Sier- | Steenen | Indeeling - Benamingen - Kenmerken | Vindplaatsen - Herkenning | Door | J.Bolman |... [5 lines of positions, etc.]... | [logo] | 23 Afbeeldingen en 69 Figuren | [double rule] | Amsterdam H.J.Paris MCMXXXVIII [1938]

8°:XII, 252 p (first 2 p blank) + [1 blank]f supplied; glossy col front pl tip-in; 69 figs(last is numbered "56"); 23 photos on 6 glossy f tip-ins. Tan cloth, single green vertical rule, gold title & gold quartz crystal group on cover; black spine cloth with gold title. Blind logo back cover. Pale brown endp. 22.8 x 15.1 cm(9 x 6 in). Te stained blue. Cut. JSL.

Cont: blank f; 1/2tp; other author bk; pl; tp; fwd; tab cont; text in 2 parts; tables index; pls; index; blank f.

A general treatise on gemstones beginning with crystallography and physical properties and ending with descriptions of many gemstones, including organics and synthetics. A large summary table of properties appears on p 223-8, while a remarkable table of gemstones, classified according to size of rough[!], rarity, and other factors appears on p 244-5. There is no bibliography. Photographic plates depict instruments, growth lines in synthetics, and two "refractograms" which show reflections from well-cut gems. A useful work which enjoyed a long career in the Netherlands. Two reprints have been examined, each with same date as above:(1) tan paper over bds, black unf cloth spine, same gold decoration, but minus the green cover rule, yellowish-tan endp, and (2) similar, but lett & quartz crystal group on cover in dk blue & spine cloth unf; pale gray endp.

757. -----1941

The | Mystery Of The Pearl | By | J.Bolman | Director of the Laboratory of the Netherlands Institute for | Scientific Research of precious Stones and Pearls, Leiden | With 188 Photographs on 38 Plates, 19 Text figures And 1 Map | [logo] | Leiden | E.J.Brill | 1941.

"Internationales Archiv Für Ethnographie... Supplement Zu Band XXXIX.. ." [Facing title] [both titles in red & black]

8°:XI, [1 blank], 170 p + [1]f title to pls sect; glossy photo front pl bound-in; 37 other glossy pls bound-in(183 photos); fold sketch map of world pearl fisheries bound-in, 19 text figs. Pale bluish gray wrap, title on cover & spine. 32.7 x 25.1 cm(12 7/8 x 9 7/8 in). Uncut. JSL.

Cont: 1/2tp; ser tp; pl; tp; publ data; tab cont; pref; introd; 3 parts(12 chs); supplement; nomenclature; biblio(p 153-6, 130 entries); ill list; index; pls tp; pls; map.

Handsomely produced, large paper, clear letterpress, excellent illustrations mark this fine book on the natural history of the pearl. Despite a romantic title, the work is fully serious and scientific, with very little "mystery" left after the author presents the usual data on pearl but many more little-known facts also. After a historical introduction, Bolman deals with zoologies of nacreous mollusks, the nature of nacre, formation of pearls, pearl fisheries, cultivation, pearl gemology, and other matters which define the pearl and its unique place in nature. The supplement describes tridacna pearls, pearls as fossils, pearl-like concretions in certain plants, and other interesting information, followed by an invaluable nomenclature section which contains several hundred terms, scientific and vulgar, applied to natural and cultured pearls, imitations, etc, and including zoological terms. The large bibliography unfortunately is filled with entries that are far too abbreviated to be readily useful; in places the language is awkward but despite these and other minor failings, this monograph remains one of the best ever published. Rev G Switzer, *G & G*, 5, 12, 1947, p 505-6.

758. -----1942

Welcher | Edel- Oder Schmuckstein | Ist Das? | Von | J.Bolman | Direktor des Laboratoriums der "Nederlandsch Institut | voor wetenschaappelijk onderzoek van Edelsteenen en Paarlen"; | Leiden, Garenmarkt 1 b | [logo] | Leiden | E.J.Brill | 1942

8°:XI (first 2 p blank), [1 blank] ,69, [4], [3 blank]p. Heavy pale brown wrap, title on cover & spine. 23 x 16 cm(9 1/8 x 6 1/4 in). Cut. Paper browning. JSL.

Cont: blank f; 1/2tp; tp; publ data; tab cont; introd; text; 3 blank p.

A series of tables for gem identifucation. The first, and largest, is called "informative nomenclature" and is an alphabetical list of all gemstones and varieties by whatever name they have ever been called, including entries for false and misleading names, along with the actual substance involved, its properties and remarks(to p 42). Other tables arrange gemstones according to transparency & color by variety, with character of refraction, also by translucency or opacity, by asterism, chatoyancy, aventurescence, chemical composition, and so on. A useful work, the first of its kind to be published in the Netherlands. The use of the German language, the date, and poor paper, suggest this work was issued under the direction of the World War II German Administration. Reprinted on somewhat heavier, unbrowned paper, thicker wrap, 24.5 x 16 cm (9 3/4 x 6 3/8 in). Cut.

759. -----1942(sic), rev edit

Same title. 8°:XI(first 2 p blank), [1 blank], 75, [4], [1 blank]p. Pale gray printed wrap, title on cover & spine. 24.1 x 16 cm(9 1/2 x 6 1/4 in). Cut. JSL. Entirely reset; errors corrected; numerous minor changes & additions.

760. -----1950, Dutch edit

Welke Edelsteen Is Dit? | Door | J.Bolman | Nederlands Edelsteenkundig Laboratorium | Wernerlaan 20, Hilversum | [logo] | Leiden | E.J.Brill | 1950

8°:XII, 101, [6], [1 blank]p; 12 photos on single glossy f tip-in. Pale brown, stiff paper wrap, title on cover & spine. 24 x 16 cm(9 1/2 x 6 1/4 in). Cut. LC 52-39175. JSL.

Cont: 1/2tp; tp; publ data; tab cont; introd; text; blank p.

Entirely new & modernized, in the Dutch language. New tables on crystal systems, temp-density corrections for distilled water, immersion & density fluids, solvents for same, wavelengths of light.

761. -----1950

Handboek | Voor | Edelsteenkunde | Door | J.Bolman | Hoofd van het Nederlandsch Edelsteenkundig | Laboratorium, gevestigd te Hilversum | Lid der Internationale Organisatie van Hoofden | van Laboratoria voor wetenschappelijk edel- | steen- en paarlenonderzoek | [logo] | Amsterdam - Uitgeverij H.J.Paris | MCML [1950; title in red & black]

8°:[2 blank]p + XII, [1], [1 blank], 1037, [1 blank]p + [2 blank]p. Pls section at end of text; 24 bound-in glossy f(Pls I-XLVIII); 479 figs which include the photos on the plates; 4 glossy col pls(A-D) tip-ins, each with transp overlay, numbered over each item depicted. Brown cloth, dk maroon leather spine with orn gold rules & lett + logo; blind stamped panels. Inner cloth hinges. 24.2 x 16.9 cm(9 1/2 x 6 5/8 in). Cut. Te stained yellow. JSL.

Cont: blank f; 1/2tp; tp; fwd; tab cont; part tp; text in 4 parts; append; blank p; blank f; pls.

A very large, encyclopedic work on all aspects of gemology. The first part is theoretical, describing the mineralogical basis of gemology, and embracing discussions of crystallography, crystal structure and chemistry, and physical and optical properties. Numerous line drawings of idealized and twinned or aggregate crsytals are provided but most are poorly drawn and an unacceptably large number are misoriented. The second part discusses testing, instruments and accessories, and procedures. The third part is descriptive in which the gemstones are arranged according to modern crystallo-chemical classification. The last part treats organic gem materials, followed by an appendix in which synthetics, imitations, falsifications, etc are described and the means by which detected. The color plates are fair to good quality and show rough & cut gemstones but most without source. The b&w photos on the plates at the end of the text are fair to good in quality, their position makes reference to them an annoying chore for the reader. There are many errors of fact, and the bibliographies, p 295-97, 115 entries, p 506-9, 131 entries, p 955-61, 367 entries, and p 1024-6, 99 entries, whose sheer size suggests a wealth of useful reference material actually contain many errors, omissions of dates, and marred by meagerness of information, that many of the entries would be very difficult to trace. The "index" is not an index in the accepted sense but rather an elaboration of the table of contents.

Despite the size and scope, it gives every impression of having been hastily and uncritically assembled and poorly proofed. Nevertheless it contains an enormous amount of information and is valuable on that account, especially for Holland residents who up to now had to depend on sources in some foreign language for the equivalent. Rev *J Gemm*, 2, 8, 1950, p 347, "an elaborate book which adds little to the existing gemmological literature. It has been reviewed in the Netherlands not too favourably. That such a large book should lack an alphabetical index is scarcely credible, and throughout the text there are inaccuracies and inconsistencies in spelling." As may be imagined, this work enjoyed only a short career with the result that copies are now quite scarce.

762. BÖLSCHE, RUDOLF (1905-1966) Über das Smaragdvorkommen im Habachtal. Ein Beitrag zu dessen Kenntnis. *Der Aufschluss*, Jg 5, 6, 1954, p 106-12; Jg 6, 9, 1955, p 158-65; photos & sketch maps; also reprint: green paper wrap, 14 p, 10 photos, 2 sk maps.

About the famous emerald deposit in the Habachtal (valley) of Austria: where it is, how reached, geology, mineralogy, typical specimens to be found, origin of deposit and its associated minerals, cut stones. Further on this deposit: *Der Aufschluss*, 8, 7/8, 1957, p 145-9; *Zs Dt Ges Edelsteinkunde*, Schlossmacher Festschrift, 1957, p 18-23; *Der Aufschluss*, 9, 5, 1958, p 117-19; ibid, 10, 4, 1959, p 84-7; *Zs Dt Ges Edelsteinkunde*, 38, 1962, p 20-6. Obit, *Der Aufschluss*, 17, 2, 1966, p 53.

763. BÖLSCHE, WILHELM

Im Bernsteinwald | Von | Wilhelm Bölsche | [logo] | [rule] | Stuttgart | Kosmos, Gesellschaft der Naturfreunde | Geschäftsstelle: Franckh'sche Verlagshandlung | 1927 ["Kosmos=Bändchen"]

8°:78, [2 advert]p; 11 figs; sketch map amber localities with cross- section. Glossy paper wrap, col picture amber forest on cover; lett back cover & spine. 20.8 x 13.7 cm(8 1/8 x 5 3/8 in). Unopened. Also in bright red cloth, dk blue lett on cover, spine, Kosmos logo back cover; orig col wrap bound-in; Kosmos pattern endp. 19.5 x 13.2 cm(7 3/8 x 5 1/4 in).JSL.

Cont: 1/2tp; advert; tp; publ data; text; advert.

Brief popular account, but accurate and fairly comprehensive treatise on amber, its origin, place in history, sources, mining, geology of deposits, inclusions, etc. Rev O Pratje, *Bernstein-Forsch*, 1, 1929, p 149.

764. -----1928, Engl transl The amber-forest primeval. Translated by R W Nagel. Stuttgart: Franckhsche Verlagshandlung, 1928, 84 p, 37 ill. Not seen: noticed by K Andrée, Bernstein-Forsch, 2, 1931, p 182.

BOLTON, H C, see BOODT, A D De, 1609.

BOLZENTHAL, Dr, see BERLIN, K Museen.

765. BOMBICCI-PORTA, LUIGI(1833-1903)

Luigi Bombicci | [rule] | La | Collezione Di Ambre Siciliane | Posseduta | Dal Museo Di Mineralogia Della R. Università Di Bologna I (Dono del Ministero di Pubblica Istruzione nel 1889). | E Nuove Considerazioni | Sull'Origine Dell'Ambra

Gialla | [rule] | Memoria | presentata alla R.Accademia delle Scienzc dell'Istituto di Bologna | e letta nell' Adunanza del 9 Febbraio 1890. | [logo] | Bologna | Tipografia Gamberini E Parmeggiani | [rule] | 1890

Extract: *Memorie della Reale Accademia delle Scienze dell'Istituto di Bologna*, ser IV, X, 1890, p 473-486 or 215-228.

4°:centerstapled, 16 p. Yellow-tan wrap, cover title & adverts. 32.6 x 23.6 cm(12 7/8 x 9 1/4 in). Cut. USGS Kunz Coll, GS 34-663.

Cont: tp; extract note; text; catalog.

The collection of 970 specimens of Sicilian amber was exhibited in the Esposizione Nationale in Turin, 1884. Possibly the finest collection of the rare Sicilian ambers in existence, the pieces included common types in all ranges of ordinary colors, the rare colors, transparent pieces, insect-inclusion specimens, nodular shapes, and included some specimens from the Bologna museum collection; list of fauna, notes on amber origin. Excellent paper which could have been very profitably expanded in view of the paucity of literature on Sicilian amber.

BONDARENKO, M N, see BOBRIEVICH, A P, et al, 1959.

BONDAROY, J J De, see TAILLE DE BONDAROY, J

766. BONDE, KNUT

Knut Bonde | Juveler | Och | Juveldyrkare | Illustrerad med konsttrycksplanscher | [logo] B Stockholm | [rule] | Lars Hökerbergs Bokföriag [1949]

8°:266, [1 blank], [1]p; 36 photos on 32 tip-in glossy f. Bright red, heavy paper wrap, black & gold dec & lett covers & spine: resume. 22.2 x 14.4 cm(8 3/4 x 5 5/8 in). Uncut. Also in black & red striped paper over bds, corners & spine in tan cloth; red & black panels, gold lett, rules, on spine. Pale tan endp, pink mottling. 21 x 13.8 cm(8 1/4 x 5 1/2 in). Cut. Te stained red. 13.50 kr paper; 18.50 kr bound. JSL.

Cont: 1/2tp; tp; publ data; dedic; 14 chs; blank p; tab cont.

Popular treatment of famous jewels & owners, how obtained & sold, English family treasures, Princess Lobanov de Rostov jewel collection, famous jewels in Sweden, large cut gems & histories, eg, Hope diamond, smuggling & other criminal acts connected with gems & jewels, snuffboxes, Marie Antoinette's necklace, Mogul and other Eastern jewels, and a final chapter on curious lore.

767. BONEWITZ, RA

Cosmic | Crystals | by | Ra Bonewitz | [logo] | Turnstone Press Limited | Wellingborough, Northamptonshire [1983; 2nd impress 1984]

Cemntb: 192 p; 129 drawings. Heavy glossy col wrap; dec. 21.5 x 13.3 cm(8 1/2 x 5 1/4 in). Cut. ISBN 0-85500-205-0. USA $9.95. JSL.

Cont: 1/2tp; tp; publ data; dedic; tab cont; introd; 13 chs; index.

Author is claimed to be "the foremost authority on the spiritual aspects of crystals," and is "a scientist, professional geologist, psychic and mystic." Perhaps due to this scientific background the first half of the book, 6 chapters to p 101, treats Solar System origin, Earth, atom structure & properties, crystal structure, bonds, packing, geometric crystallography, mineralogy, economic mineralogy, and brief history of the development of the mineralogical sciences not to omit discussions of electronic crystal fields, piezoelectricity, and "energies" within crystals, all of which appear designed to support the author's thesis that crystals can be worn for protection and for health reasons. The latter forms the last part of the book in which also appears a chapter on growing certain water-soluble crystals. Practically all the line drawings appear to be crystal forms copied mostly from Dana's Textbook. There are no references.

768. BONNEBAKER & ZOON Edelsteen-Serie [a series of promotional booklets on gemstones issued by this jewelry finn, Herengracht 376, Amsterdam]. I have seen two issues: N°2, Beryl(actually emerald), [2], 27, [1]p, ill, map, and N°3, Pearl, [2], 27, [3]p, ill. There may be more.

769. BONNEMÈRE, LIONEL(1843-1905) Les perles d'Europe. *Bull Soc Études Scientifiques d'Angers*, 2, 25, 1896, p 133-65. Not seen.

770. -----1901

Les | Mollusques | Des | Eaux Douces De France | Et | Leurs Perles | Par | Lionel Bonnemère | [orn] |Paris | Institut International De Bibliographie Scientifique. | 93, Boulevard Saint-Germain, VI. | [rule] | 1901

8°: 1 blank f supplied + [3], [1 blank], 154, [1], [1 blank]p.; 2 photo pls bound-in. Pale green wrap, title in red & black on cover. 25.3 x 16.3 cm(10 x 6 1/2 in). Uncut. USGS Kunz Coll, GS 34-664.

Cont: blank f; 1/2 tp; tp; introd; text; blank p.

Outstanding natural history of freshwater pearl-bearing mollusks of France: history of the pearl fishery, identification & description of species, reproduction, biological notes, ancient view on the formation of pearls, same in Middle Ages, modern views, description of nacre, colors, etc, notes on distribution of the species.

771. BONNER, CAMPBELL

Studies In | Magical Amulets | Chiefly Graeco-Egyptian | Campbell Bonner | [engrav gem vignette] | Ann Arbor · The University Of Michigan Press | London · Geoffrey Cumberledge · Oxford University Press | 1950

8°:xxiv, 334 p + [1]f pls title; small signs, symbols, etc. in text + 25 pls(397 photos of engrav gems, seals, etc) on 11 bound-in f (matte paper, slightly tan) + Fig 1-8 (photos) on both sides of 2 bound-in glossy f(white paper). All pls at end of text. Dk green, ribbed cloth, blind seal U Mich on front cover, gold lett, rules on spine. Tan, heavy paper dj. 27.3 x 20.1 cm(10 3/4 x 7 7/8 in). Cut. JSL.

Cont: series tp; tp; publ data; dedic; pref; ackn; tab cont; pls list & ills; part biblio & abbrev(p xix-xxiv, 123 entries); text; pl descriptions; addenda; subj, Greek, names, etc; indexes; grammatical details; inscriptions emended; amulets in Brit Mus; pls tp; pls.

Scholarly, virtually unique work, pursuing and documenting the thesis that many engraved gems of antiquity were actually magical amulets and not Gnostic or religious gems as formerly thought by a number of authorities, eg, C W King whose work, *Gnostic and Their Remains*, 2nd edit 1887, receives sharp criticism. Of this work he further states that "taken as a whole... [it] is a book from which a modern investigator can draw little profit," (p 45). The introduction discusses amulets and supposed

virtues in various cultures, gives remarks on various materials from which made, and in the main text, systematically surveys the classes of amulets which were believed to confer protection to the wearer in respect to health, personal attractiveness, and so on. Text richly detailed, abundantly footnoted; this work is much referenced in later treatises on engraved gems & amulets.

772. BONNER, JOHN Diamonds and other gems. *Harper's New Monthly Magazine*, New York, 32, 1866, p 343-53, 24 wood engravs. JSL. Popular, yet factual, wryly humorous in places article, principally on the diamond as then sold in American and European markets, also notes on famous diamonds, to which much space is given, and less on other gemstones. Handsome wood engravings: famous diamonds mostly. Prevailing prices given!

BONNEY, THOMAS GEORGE (1833-1923)

Eminent Brit geologist; BA St Johns Coll, Cambridge 1856; ScD Cambr; DSc Dublin U & Sheffield U; LLD Montreal; ord priest 1858; taught various univs in England; active in affairs Geol Soc London, etc; prolific writer on geol subjects. DSB 2, p 288-90; Pogg 4, 157; 6, 277; mem of R H Rastall, *Geol Mag*, 61, 1924, p 49-51; *Nature*, 113, 1924, p 201- 2; *Geol Mag*, ns 4, 8, 1991, p 394-400, with biblio, 1865-99, 176 entries.

773. -----1877 On the serpentine and associated rocks of the Lizard district. *Quart J Geol Soc London*, 33, 1877, p 884-924. Colorful & patterned rocks used for lapidary work.

774. -----1899 The parent-rock of the diamond in South Africa. *Geol Mag*, 4, v 6, 1899, p 309-21, figs; *Proc Roy Soc London*, 65, 1899, p 223-36; *Nature*, 60, 1899, p 620-1; *Chem News*, London, 80, 1899, p 3-6, 13-15, figs; *Canad Rec Sci*, 8, 1899, p 95-114. Not seen.

BONNEY, T G, see LEWIS, H C

BONSHTEDT, A, see FERSMAN, A E, 1920.

775. BONVOISIN, B [On the hydrophane opal of Piemont, Italy.] *Mémoires Acad Roy Sci Turin*, 5, 1784, 25 p; also Vom Weltauge in Piemont, *Sammlungen zur Physik und Naturgeschichte von einigen Liebhabern dieser Wissenschaften*, Leipzig, 4, 1792, p 520-44. Not seen.

776. -----1799 Remarques sur la véritable nature de la turquoise suivies d'un procédé propre a colorir intimement les pierres naturelles, et les rendre sembables a la turquoise orientale. *Mém Acad Roy Sci Turin*, 6, 1799, p(?). Not seen.

777. -----1806 Description du péridot idocrase, et de quatre autres substances lithologiques d'espèce nouvelle, nommées Succinite, Mussite, Alalite et Topazolite, découvertes dans les vallées de Lans, département du Pô en Piemont; lue à la séance de la Classe des Sciences exactes de l'Académie impériale de Turin, le Ier août 1805, suivie de l'analyse de la Topazolite; par B.Bonvoisin, Membre du Corps législatif, de la même Académie, du Grand-Conseil, Professor de Chimie pharmaceutique de l'Université de la même ville, etc., etc. *J de Physique et d'Histoire Naturelle*, Paris, 62, May, 1806, p 409-31, 1 engrav pl with note by J C Delametherie p 428-31. Not seen.

BOODT, ANSELM BOETIUS DE (1550-1634) also BOOT, BOECE, BOETHIUS, etc

B ca 1550 Bruges, Belgium; physician, acquired extensive knowledge of gemstones & their lapidary treatment, both qualifications leading to appointment as personal physician & gem expert/advisor to Rudolph II(1552- 1612) of Prague; wrote several works, one on botany, in addition to his best known work described below. Biogr Univ 5, p 147; DSB 2, p 292-3; see also various biogr notes in discussions below.

778. ----- 1609

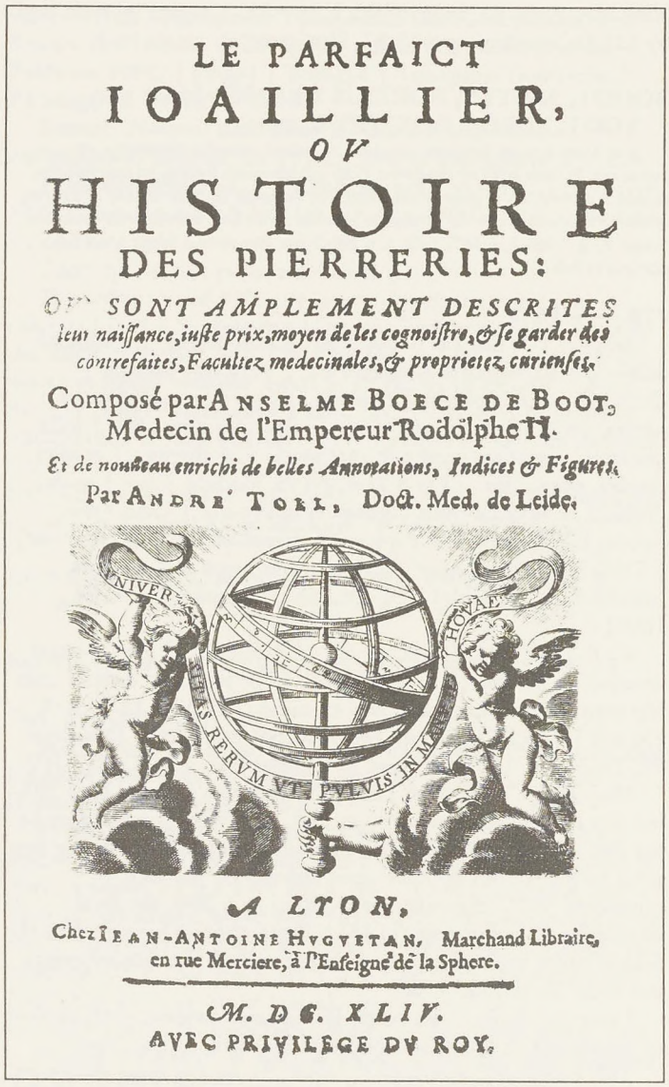
Anselmi | Boetii De Boodt | Brvgensis Belgae, | Rvdolphi Secvndi, | Imperatoris Romanorvm, | Personae Medici, | Gemmarvm Et Lapidvm | Historia, | Qua non solum ortus, natura, vis & precium, sed etiam modus quo exiis olea, | salia, tincturae, essentiae, arcana & magisteria arte chymica | confici possint, ostenditur. | Opvs Principibvs. Medicis, Chy- | micis, Physicis, ac liberalioribus ingeniis vtillissimum. | Cum variis figuris, Indiq$_3$ duplici & copioso. | [woodcut logo] | Hanoviae, | Typis Wechelianis apud Claudium Marnium & | heredes Ioannis Aubrii. | [rule] | M. DC. IX. [Hanover, Germany, 1609]

4°: 8, [12], 294, [16]p; †^{4} ††^{4} †^{2} A-Mm^4 Nn^2, Pp^4; 34 text wood-cuts; 8 tables(2 fold, p 2/3 & 6/7); woodcut orns & inits. My copy vellum. Largest p size examined: 22.25 x 18.5 cm(8 3/4 x 6 1/2 in). Cut. Paper browned but not brittle. Dewalque 59; DeGolyer, U Okla; Ward & Carozzi 251; JSL. GS 17-307.

Mispaging: "117" recte 113; following nos in error to p 293 but last p numbered correctly as 288; however, in what may be the *first issue* of this work, the pagination proceeds from the first error to p 270, but another error appears on the next p, numbered "277," thereafter proceeding to p 294, the final numbered p. In this issue(in JSL), there appears no sign that the folded tables were ever present; there are other misnumberings but these do not carry on.

Cont: tp; dedic to Rudolph II; commendations; pref; catalog of gemstones & list of authors; text in 2 bks; index; logo.

This celebrated encyclopedic work, by far the most thorough and complete up to date, easily surpasses Bacci, Marbod, and Leonardus in quantity and quality of information; it is further distinguished by its intimate knowledge of the art of the lapidary and must therefore be regarded as the first treatise to offer more than the briefest of views of gem cutting. De Boodt assembled virtually all of the knowledge then extant, making this first edition an impressive work by any standard, but succeding editions, augmented by additional information are even more impressive, especially the third and last edition of 1647. The importance of this work spurred many writers to comment on its substance and worth, among them, Thorndike, *History of Magic*... ,vol 6, p 318-24, who comments mainly on the credulity of De Boodt in regard to the efficacy of certain stones in medicine. Adams, *Birth and Development of the Geological Sciences*, p 161-3, on the other hand, deemed De Boodt's scheme of classifying gemstones as the precursor to modern systems. King, *Natural History of Precious Stones*, 1867, p 23 ff, actually provides the best analysis of the work(in the 3rd edit), inasmuch as he was expert in gemology, a classical scholar, and versed in the Latin and the books in this language that De Boodt consulted for much of his information. He therefore states, ibid, p 23, "It was not before the opening of the next century that a


LE PARFAICT
IOAILLIER,
OV
HISTOIRE
DES PIERRERIES:
OV SONT AMPLEMENT DESCRITES
leur naiſſance, iuſte prix, moyen de les cognoiſtre, & ſe garder des
contrefaites, Facultez medecinales, & proprietez curieuſes.
Composé par ANSELME BOECE DE BOOT,
Medecin de l'Empereur Rodolphe II.
Et de nouueau enrichi de belles Annotations, Indices & Figures,
Par ANDRE' TOLL, Doct. Med. de Leide.
A LYON,
Chez IEAN-ANTOINE HVGVETAN, Marchand Libraire,
en rue Merciere, à l'Enſeigne de la Sphere.
M. DC. XLIV.
AVEC PRIVILEGE DV ROY.

780. Boetius De Boodt's history of gemstones in its French translation with titlepage in red & black and ornamented by a handsome engraved vignette

work on Mineralogy appeared which still retains any practical value - and that too in a very high degree. In the year 1609, Anselm de Boot ... published his book (written in 1600) 'De Gemmis et Lapidibus' " and "whoever desires to become acquainted with a work exhibiting in every line the mode of thought of that age, in its extraordinay mixture of credulity with the most extensive and various learning, and great practical experience, will find his trouble amply repaid by the perusal of this book, written as it is in elegant and easy Latin by the confidant and helper of the imperial alchemist and virtuoso [ie, Rudolph II]. The learned physician displays much critical knowledge in his attempts to identify gems known to the ancients by names transferred to others, quite different, in mediaeval times; and it has been a satisfaction to me to find his attributions for the most part coinciding with my own, made independently; my researches into that particular division of my subject having been nearly completed before De Boot's dissertation came to my knowledge. In his disquisitions upon the innate properties of stones he draws a distinction that curiously illustrates the struggle then going on between traditional superstition and reason aided [p.24] by experiment. Whilst admitting, and to the fullest extent, all their medicinal virtues as set forth in the mediaeval Lapidaria... he denounces the belief in their magical potency for a snare of the Devil, equally as superstitious as derogatory to the idea of Divine Providence." King further notes that "De Boot was a practical mineralogist as a well as lapidary, frequently citing specimens of rare stones from his own collection; and explaining improvements invented by himself in the mode of cutting precious stones. His notices of their native places, the trade in them, the current prices, the arts of working and of counterfeiting them, are admirably given in brief yet comprehensive details, displaying a thorough acquaintance with this department."

In respect to King's remarks on De Boodt's lapidary expertise, it should be noted that the latter not only adequately described the processes involved, but no doubt based them upon observations made in the extensive lapidary workshop established at the Court by Rudolph; quite possibly the highly interesting but very crude woodcuts of lapidary apparatus, the first of their kind to be used in any gemological book, and excepting those found in Cube's *Hortus Sanitatis*, were also attempts to depict the machinery used in the Court workshop. The woodcut of a faceting device for example, clearly shows that the principle remains the same in modern devices up to now except for refinements designed to increase accuracy and avoid mistakes. For a broad picture of the environment in which De Boodt worked while in Rudolph's court, see the fascinating history of the emperor and court by H C Bolton, *The Follies of Science at the Court of Rudolph II.*, 1576-1612, 1904; De Boodt is discussed on p 99-100.

Other works profitably consulted to gain insights on De Boodt and his character include J Kickx, Esquisses sur les ouvrages de quelques anciens naturalistes belges, III. Anselme Boece de Boodt, *Bulletin de l'Académie royale de Belgique*, 19, 2e pt, 1852, p 203-24, biblio of De Boodt, p 220-2, and Prof Jaeger in *Nieuw Nederlandsch Biografisch Woordenboek*, who states that De Boodt's work gives a complete picture of the state of descriptive mineralogy during the 16th century, and that it marks the transition from the peripatetic to the eclectic philosophy of that century. A modern study, stressing Rudolph's stone collecting and lapidary interests, is that of Walther Fischer in *Der Aufschluss*, Jg 22, 1, 1971, p 1-36, ill, which see in its place. The best recent summary is by R Halleux, "L'oeuvre mineralogique d'Anselme Boece de Boodt (1550-1632)," 1979, which see, and in which he identifies the sources of the book and analyses its attempts toward mineral classification, its theories about the genesis of stones, and its critical attitude towards their magical and medicinal virtues. Other studies include J E Hiller, Boetius De Boodt als Vorkämpfer der neuzeitlichen Mineralogie, *Fortschr Min*, Stuttgart, 17, 1932, p 40-1, and also by him, "Die Mineralogie Anselmus Boetius De Boodts," *in Quellen und Studien zur Geschichte der Naturwissenschaften und der Medizin*, 8, fasc 1/2, Berlin, 1941, p 1-215(not seen). Especially recommended for its references and mentions of other works is Halleux, mentioned above.

GEMMARUM
ET
LAPIDUM
HISTORIA.
QUAM
Olim edidit ANSELMUS BOETIUS de BOOT,
Brugenſis, RUDOLPHI II. Imperatoris Medicus.
POSTEA
ADRIANUS TOLLIUS, *Lugd.-Bat., M. D.,*
recenſuit; figuris melioribus, & Commentariis
pluribus illuſtravit, & Indice auxit multo
locupletiore.
Tertia Editio longe purgatiſſima. Cui accedunt IOANNIS de LAET, Antvverpiani, De Gemmis & Lapidibus libri II. Et THEOPHRASTI liber De Lapidibus, Gr. & Lat. cum brevibus notis.



LUGDUNI BATAVORUM,
Ex Officina IOANNIS MAIRE.
CIↃ IↃ C XLVII.

781. Titlepage to Boetius De Boodt's history of gems, third edition as revised by Adrian Toll and containing De Laet's treatise on gemstones and minerals

779. -----1636, 2nd edition, edited by Toll

Gemmarvm | Et | Lapidum | Historia. | Quam | Olim edidit Anselmus Boetius de Boot | Brugensis, Rudolphi II. Impera- | toris Medicus. | Nunc vero | Recensuit, à mendis repurgavit, Commentariis, | & pluribus, melioribusque Figuris illustravit, | & multo locupletiore indice auxit, | Adrianus Toll Lugd.-Bat.M.D. | [logo] | Lvgdvni Batavorvm, | Ex Officina Joannis Maire. | CIↃ IↃ C XXXVI. [Leyden, 1636] 8°:[8], 576, [21], [3 blank]p; (?)^4 ,A-Nn^8, Oo-Qq^4; 2 fold tabs (facing p 15 & 22); 44 woodcuts; 8 text tabs. Orn inits. Vellum. 17.3 x 10.7 cm(6 7/8 x 4 1/4 in). Cropped. USGS 32-242; JSL; Ward & Carozzi 252;Dewalque 59; U Okla De Golyer Coll; USGS Kunz Coll, CS 33-242.

Cont: tp; Toll's dedic to Gulielmo Bontio, et al; laud poem by Caspar Barlaeus; orig pref; orig catalog of gemstones & authors cited; text; index; blank p; blank f.

Text appears to be straightforward repetition but the archaic contractions in the Latin of the original have been eliminated; illustrations considerably changed by being redrawn and re-engraved, usually with minor differences in detail but sometimes significantly changed. New illustrations: quartz crystals; corals now spread over 2 pp; redrawn bezoars taken from other specimens; geodes; asbestos cloth & how obtained; hematite; ammonite. This edition edited with minor changes by Adrian Toll, of a well-known family of the same name of Utrecht; MD; died Leyden 1635 in an epidemic; wrote a commentary on Galen & Hippocrates; *Biog Univ*, 46, p 210, footnote. Agassiz I, 362.

780. -----1644, Fr transl, by Jean Bachou

Le Parfaict | Ioaillier, | Ov | Histoire | Des Pierreries: | Ov Sont Amplement Descrites | leur naissance, iuste prix, moyen de les cognoistre, & se garder des | contrefaites, Facultez medecinales, & proprietez curieuses. | Composé par Anselme Boece de Boot, | Medecin de l'Empereur Rodolphe II. | Et de nouueau enrichi de belles Annotations, Indices & Figures. | Par André Toll, Doct.Med.de Leide. | [engrav rect vignette] | A Lyon, | Ches Iean-Antoine Hvgvetan, Marchand Libraire, I en rüe, Merciere, à l'Enseigne de la Sphere. | [rule] | M.DC. XLIV. | Avec Privilege Dv Roy. [title in red & black; 1644]

8°: [32], 746, [34]p; a^8, e^8, A-Bbb^8, Ccc^7; 45 text woodcuts; 8 text tabs; 2 fold tabs(p 6 & l6); ch orns & inits. 17.3 x 11.2 cm (6 3/4 x 4 3/8 in). Cropped. LC 8-36371; JSL: Ward & Carozzi 354.

Last f missing?: should end with blank f to collate fully; another copy examined shows same lack & it is probable that the last f was customarilty removed in binding.

Cont: tp; dedic J-A Huguetan to Gaspard De Monconys; Bachou's pref; orig pref in Fr; Barlaeus poem in Latin; catalog of gemstones in Latin but with corresponding authors cited in Fr; priv; text; index.

Considerable annot by Bachou; all cuts redrawn & re-engraved after those of 2nd edit; Caillet, 1286; Graesse I, 493; Brunet I, 1108.

781. -----1647, 3rd edit, with De Laet on gems

Gemmarum | Et | Lapidum | Historia. | Quam | Olim edidit Anselmus Boetius de Boot, | Brugensis, Rudolphi II. Impera- | toris Medicus. | Postea | Adrianus Tollius, Lugd.-Bat., M.D., | recensuit; figuris melioribus, & Commentariis | pluribus illustravit, & Induce auxit multo | locupletiore. | Tertia Editio longe purgatissima. Cui accedunt Ioan- | Nis de Laet, Antvverpiani, De Gemmis & La- | pidibus libri II. Et Theophrasti Li-| ber De Lapidibus, Gr. & Lat. cum | brevibus notis. | [logo] | Lugduni Batavorum, | Ex Officina Ioannis Maire. | CIↃ IↃ C XLVII. [Leyden, 1647] [2 works in one, sep paged; sep titles]

8°: [8], 576, [22]p; ills, etc, same but fold tabs face p 14, 22. Vellum. 17.9 x 11.3 cm(7 1/8 x 4 1/2 in). Cropped. LC 15-13953; JSL; Ward & Carozzi 253; U Okla De Golyer Coll. Agassiz I, 362.

Cont: tp; dedic by Maire; Barlaeus poem; pref; catalog & authors; text; index. Minor text changes; new dedication.

De Laet's work:

Ioannis De Laet | Antvverpiani | De | Gemmis | Et | Lapidibus | Libri Duo. | Quibus praemittitur | Theophrasti | Liber De Lapidibus | Graece & Latine | Cum | Brevibus Annotationibus. | [same logo] | Lugduni Batavorum. | Ex

Officina Ioannis Maire. | Anno CIↃ IↃ C XLVII. [1647]

8°:[16], [48], 210, [6]p; *-****^{8}, A-N^8, O^4; 43 text woodcuts

Cont: tp; dedic to Elizabeth, Queen of Bohemia; pref; index of chs; citations from Salmasius & Pliny; errata; Theophrastus's treatise; text in 2 bks; index.

Main work reset but retaining same tabs & ills. Laet's work set in same type and with several ills borrowed from De Boodt. Outstanding is the inclusion of Theophrastus's *Peri Lithon*, Greek & Latin, with extensive annotations by De Laet, and one of the few places in the gemological literature where the *Peri Lithon* appears in its entirety. The latter, on 48 unnumbered pages, is followed by De Laet, the first book on transparent and semi-transparent gemstones, and the second on those more ordinary or thought to possess magical, curative, or other special attributes, embracing, eg, such strange bedfellows as animal fossils, geodes, the eagle stone, etc. De Laet's work necessarily repeats considerable material in De Boodt but has the merit of being more up to date and citing more recent authorities.

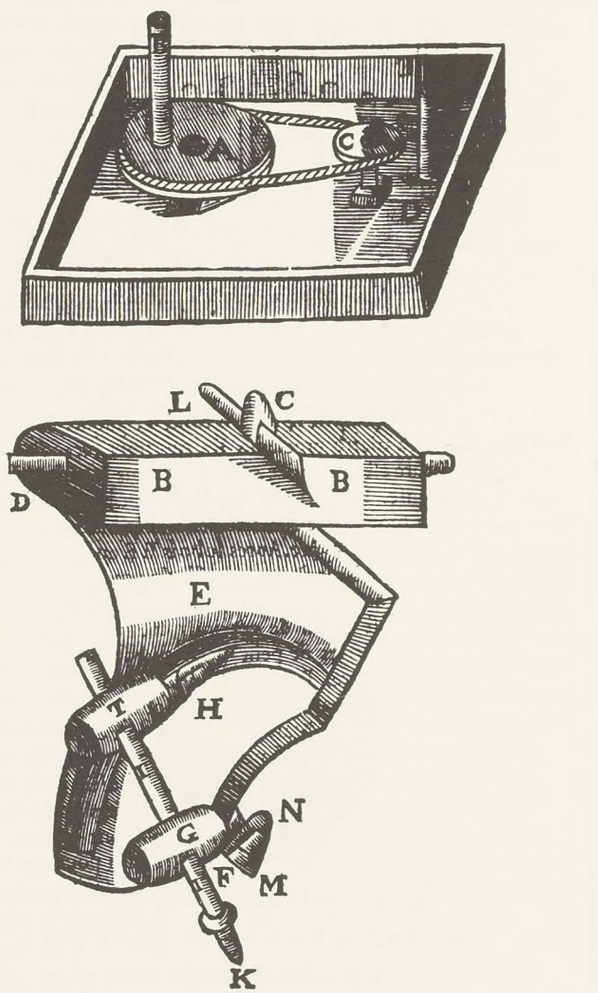
While combining two works in one, the intention of the publisher may have been to take advantage of sales opportunities by selling the works separately as is commonly the case with the De Laet, and also, but less commonly, selling De Boodt separately, but usually with a specially printed titlepage(see below).

We may profitably return to C W King's comments (see above) on this work, wherein he says De Laet's book "was confessedly composed as a supplement to his predecessor's more extensive work," and "is deserving of the highest praise, and has furnished me with abundance of curious information whenever the jewelry of the Renaissance came to be considered. Both treatises have been the source whence subsequent writers upon precious stones have drawn all that is valuable in their pages; and that too without acknowledging their obligations: Dutens, for example, whose 'Pierres Precieuses' (publ. 1777) is little better than an abridgement of De Boodt's chapters upon the same heads." Cicognara 2777; Wellcome Library II, p 202.

The titlepage of the separately issued De Boodt 3rd edition is as follows:

Gemmarum |... | pluribus illustravit, & indice auxit mul- | to locupletiore. | [woodcut baroque orn] | Lugduni Batavorum, | Ex Officina Johannis Maire, |... [same date]

Maire's logo on the combined edition titlepage is a vignette of a peasant spading soil; above it women's figures supporting a panel enclosing flowers & fruits; this titlepage is entirely reset and printed upon unmatching paper and is therefore a cancel.



781. Faceting machinery of the 15th-16th centuries in Europe according to Boetius De Boodt

782. BOOTH, A & CHURCH, ARTHUR HERBERT (1834-1915)

Illustrated Catalogue | Of | Gems, Cameos, & Amber | Collected By A.Booth | Gloucester | [orn rule] | Drawn On Stone Full Size By Robert Barnfield | Descriptions Mostly By A.H.Church | [rule] | Printed By John Bellows. 154224 [Gloucester(?): priv publ, pre-1886(?)]

Edgesewn oblong: 11, [1 blank]p + [81] f of illust, including steel engrav portr & 149 items in pale gray lithography with numbers and captions in blue, printed recto only + [1]f blank. Item 104, f[60], sometimes accompanied by tip-in slip further explaining a large faceted glass gem; other copies(perhaps all?), with pale blue loose insert of [2]f indicating that the collection was to be donated to Ashmolean Museum, Oxford. Blue moire cloth, gold title on cover. Dull finish, dk brown endp. 13.8 x 22.1 cm(5 1/2 x 8 3/4 in). Cut. Another copy in red morocco, single-rule gold edge-frame both covers; spine title; similar endp; aeg. 14 x 22.3 cm(5 1/2 x 8 3/4 in). Cut; probably presentation version. Also in pale gray paper wrap, title in blue & brown on cover in orn blue-line frame; brown stars & quot in similar frame back cover. 14 x 22 cm(5 1/2 x 8 3/4 in). Cut. USGS Kunz Coll, GS 34-291; JSL.

Cont: tp; dedic; descriptions principal gemstones and glass; letter signed "W. Schmidt;" blank p; catalog.

Pictorial collection catalog, all items drawn full-scale in skillfully-executed line drawings, and for ambers, which do not lend themselves to this technique, charcoal-like drawings. Prelims include short descriptions of gemstones, a dedication to T Gambier, whose steel-engraved portrait heads the illustrations, and a letter from W Schmidt who claims that he has devised a new method for cutting opal cameos "in such a manner as to utilize the matrix of the rough opal for the ground." Many of the over 100 engraved gems were done by Schmidt; his name, along with other artisans appears in the illustrations. The

engraved gems appear to be all modern and cut from precious opal, labradorite, amethyst, shell, lapis lazuli, fossil shell, amber and beryl. There are over 30 polished irregular masses of amber, including a specimen of kauri gum. Miscellany: Chinese snuff bottle; amethyst bust-seal, corundum gems in rings, glass faceted gem, opal cabochons.

BOOTH, H, see LOWN, C

BORCH, MICHAEL JEAN DE, or JOHANN, *Count* (1753-1811)

Mbr Polish nobility; inheritor of land in former Polish Livland; Polish governor of Lutzin; military commander Belsk & Bailiff, Maltese Order; mbr numerous learned soc. Pogg 1, 237.

783. -----1777

Lythographie | Sicilienne | Ou | Catalogue Raisonné De Toutes Les Pierres | De La Sicilie. | Propres á embellir le Cabinet d'un Amateur. | Par. M. Le C. D.B.C.D.C. | De Plusièrs Accadémies. | [double rule] | Omniparens Natura, hominum rerumque Creatrix, | Difficilis, facilis, similis tibi, dissimilisque, | Nulligena, indefessa, ferax, te pulchrior ipsa. | Thylesius Carm. VIII. lib.I. | [woodcut orn] | A Naples)(MDCCLXXVII. | [double rule] | Avec Approbation des Supérieurs. [1777]

4°: [8], X, 50 p; [a]-b^2 A-B^4, C-N^2; woodcut ch orns. 27.8 x 21/1 cm(11 x A 1/4 in). Cropped. JSL. Agassiz I, 362(Ital edit).

Cont: tp; dedic; pref; tab cont; prelim discourse; text; errata.

Catalog of De Borch's collection of Sicilian stones of the following classes: I Hard stones, II Semi-Hard stones, III Soft Stones; IV Miscellaneous. The hard stones are varieties of jasper and agate, the next are so-called "allabastrides" and "concretions," not further identified except that some of the first are from Malta; the third class includes marbles and alabasters, while the last class includes dendrites, siliceous stones, stropping stones, and gives remarks upon the occurrences of lumachelle marble, basalts, granites, porphyries, serpentines, fossils, and quartz crystals in Sicily. By far most entries are jaspers and agates. Entries are under columns of Italian name, French name, locality, dimension, and price. Preliminary remarks describe the richness of Sicily in such materials as well as giving an explanation of local currency, measures of length, and the intention of the author to publish three separate works on the stones of the island, this being the first. The second is to be *Lithologie Sicilienne*, see below, and the last, *Theorie des Volcans*.

784. -----1777, Ital edit Conte di Borch Litografia di Sicilia. Napoli. 1777. 8. Not seen: from C C Leonhard, et al, *Propadeutik der Mineralogie*, 1817, p 261; Pogg I.

785. -----1778

Lythologie | Sicilienne | Ou | Connaissance De La Nature | Des Pierres De La Sicilie | Suivie | D'Un Discours | Sur La Calcara De Palerme | Par Monsieur | Le Comte De Borch | De Plusiers Accadémies | In arctum coacta rerum Naturae majestas. | Plin. lib.37. | [rect engrav vignette, cupids supporting Papal coat-of-arms] | A Rome | Ches Bénoit Francesi | Avec Approbation Et Permission | [double-rule] | MDCCLXXVIII.

4°: XVI, 228p; [a]-b^4 A-Dd^4, Ee^6 large engrav head- & tailpcs; 1 text engrav; engrav init. 29.2 x 22.4 cm(11 1/2 x 8 7/8 in). Cropped. BM(NH); Ward & Carozzi 256; JSL. Agassiz I, 362 (Ital edit).

Cont: 1/2tp; tp; dedic; tab cont; imprimatur; quot; introd; discours; 6 chs; concl; discours; avis l'auteur; letter; response; errata.

Remarkable and handsome continuation of author's studies on the stones of Sicily, among notable portions being descriptions of chalcedonic varieties of quartz, p 51-131, in which are treated jaspers, (111 varieties), agates,(121 varieties), and quartz crystals. There are also numerous kinds of marbles, p 136-61, listing 89 specimens, alabasters, stalactites, stalagmites, lumachelle marble, serpentine, etc. While the first volume in this series was merely a catalog, and not very helpful at that, this book furnishes descriptions and remarks on the nature of the deposits in which the materials occur.

786. -----1778, Ital edit of above Conte di Borch Lithologia Siciliana, o concoscenza della natura delle pietre della Sicilia, seguita da un discorso sopra la Calcara di Palermo. Roma. 1778. 4. From Leonhard, ibid, p 261; not seen.

787. -----1780

Minéralogie | Sicilienne | Docimastique Et Métallurgique | Ou Connaissance De Tous Les Minéraux Que Produit | L'Ile De Sicilie, Avec Les Détails Des Mines Et Des | Carrières, Et L'Histoire Des Travaux | Anciens Et Actuels De Ce Pays. | Suivie De La | Minérhydrologie | Sicilienne | Ou La Descriptions De Toutes Les Eaux Minérales | De La Sicilie | Par L'Auteur | De La Lythologie Sicilienne. | [engrav medal bearing profile & name of author] | Turin 1780 | [double-rule] | Chez Les Freres Reycends.

8°: LXXX, 264 p; *-******^{8} A-Q^8, $R^{4;}$. 13 bound-in fold tabs. 20.5 x 13.2 cm(8 1/8 x 5 1/4 in). Cropped. BM(NH); Dewalque 60.

Cont: tp; dedic; pref; gen observations; introd; 4 chs; avis; mineral hydrology of Sicily(3 chs); tab cont; imprimatur; other works of author; fold tabs. Agassiz I, 362.

Lists and briefly describes, with localities, the same sorts of stones given in previous works, eg, jaspers, p 70-81, agates, p 82- 92, etc, but now including specimens of Sicilian amber, p 185-6, and jet, p 186-7. The last part is on the island mineral springs.

BORDEAUX, ALBERT FRANÇOIS JOSEPH(1865-1937)

Much traveled, venturesome Fr mining eng; conducted explorations/ examinations in Siberia, China, Indochina, Guiana, California, Mexico, etc. *Dict Biogr* Fr 6, 1073.

788 -----1898 Rhodesie et Transvaal: Impressions de Voyage. Paris Librairie Plon. 1898. 8°: vii, 284 p. Not seen: Mendelssohn states "The author landed at Beira, and thence travelled into Manicaland, Matabeleland, Mashonaland, and the Transvaal, visiting Zimbabwe, the gold mines at the Transvaal, and the diamond mines at Kimberley."

788A. -----1898

Albert Bordeaux | Ingénieur Civil Des Mines | [rule] | Les | Mines De L'Afrique Du Sud | [rule] | Transvaal, Rhodesie |

Etc. | [orn rule] | Paris | Vve Ch.Dunod, Éditeur | Libraire Des Corps Nationaux Des Ponts Et Chaussées Et Des Mines | 49, Quai des Grands-Augustins, 49 | [rule] | 1898 | Tous droits resérvés

8°: [2 blank], VIII, 211, [1]p; 8 fold bound-in pls at end of text (maps, mine installations, washing plant). Print wrap(?). 24.5 x 16 cm (9 3/4 x 6 1/4 in). Probably uncut. GS 6-968; JSL.

Only a short section, p 147-58, on Kimberley diamond mines; remainder on gold deposits & mining; last plate diagrams washing plant at De Beers mine. Mendelssohn: "The author... made a stay of nearly three years in South Africa."

789. -----1898 L'exploitation des mines de diamants à Kimberley. *Revue Universelle Des Mines*, etc , Liège et Paris, 43, 1898, p 221-37, pls 9-10(fold). Regional & local geology, pipes, mining kimberlite, treatment, recovery diamond, production figures for 1889-97; plates of machinery used for treatment of ore.

790. BORELLI, ALESSANDRO Giade e materiali simili elementi utili alla identificazione ed alla distinzione. *La Gemmologia*, Milano, 5, 3/4, 1979, p 14-33, 38 figs, tab, 12 ref. Jades & jade-like materials; with 38 spectrum strips showing absorptions.

791. BORGLUND, ERLAND & FLAUENSGAARD, JACOB

Working In | Plastic, | Bone, Amber, | And Horn | Erland Borglund And | Jacob Flauensgaard | [logo to left] Reinhold Book Corporation | A subsidiary of Chapman-Reinhold Inc. | New York Amsterdam London [1968]

Dj flap: "Reinhold Scandinavian Craft Series," orig in Swedish(?), p [2]: "Edited in English by Clara Fried Zwiebel."

Edgesewn: 96 p; ca 85 ill. Turquoise buckram-type paper over bds; gold spine lett. Front cover dj photo; resume; other series bks. 21.4 x 16.5 cm(8 1/2 x 6 1/2 in). Cut. USA $4.50. LC 67-24691. JSL.

Cont: tp; publ data; tab cont; pref; 5 sects; suppliers.

Simple instructions on making useful & ornamental objects from plastic, bone, ivory, whale's teeth, horn, amber, the last on p 86-95.

BORGNET, A, see ALBERTUS MAGNUS, 1890

BORIONI, A, see VENUTI, R, 1736

792. BORISOV, A & LUKONIN, B Sasanidskie gemmy (Sassanian seals. The catalogue of the Hermitage collection). Leningrad 1963. 221 p., 20 plates. 1 of 1500 copies. Buckram 26.5 x 21 cm. Not seen: Thomas Heneage Cat No 8, no 313, 1984.

793. BORN, GERALD M

Chinese Jade: | An Annotated Bibliography | Compiled by | Gerald M. Born | Chicago | Celadon Press | 1982

16°: 431, [3 blank]p; tip-in col front pl included in pag(p [1-2]); 28 line drawings. Dk maroon, plasticized paper over bds; gilt spine title; pale green endp. 23.5 x 15.2 cm(9 1/4 x 6 in). Cut. Pale tan paper. $25.00; after May 1, 1982 $32.00. JSL.

Cont: glossy f.col pl; tp; publ data; tab cont; line drawing; fwd; ackn; introd; literature of Chinese jade; biblio(p 36-361); abbrev; title index; index; 3 blank p.

Foreword by Joan Hartmann-Goldsmith, "destined to become the standard reference." Bibliography "limited to material available in English" and covering "a period from about 1880...until 1981." There is a very useful essay on the development of jade literature in two parts, the first on Chinese sources and the second on English sources, each with references used. The bibliography is alphabetical by author for the most part, and providing physical description and contents analysis, with comments, which may range from a line or two or occupy a full page or more. By far the largest number of entries are journal articles. Where known, library & collection holdings indicated. Up to now, the best available bibliography for jade. There is commonly enough detail provided to enable a researcher to dispense with actual examination of the reference.

BORN, IGNAZ *Edler* von (1742-1791)

B Karlsburg, Transylvania; early became a Jesuit priest but returned to the laity and intensively studied mineralogy, econ geol & metallurgy, being esp expert in the last; ardent Freemason, head of Vienna chapter; leading fig in "enlightenment" movement, he is the "Sarastro" of Mozart's *Magic Flute*; achieved fame primarily for devising improved method of gold/silver recovery by amalgamation; Pogg I, p 242-3; DSB 2, p 315-6.

794. -----1790

Catalogue | Methodique Et Raisonné | De La | Collection Des Fossiles | De Mlle. Éléonore De Raab. | [rule] | Par Mr. De Born. | [rule] | Tome Premier[-Second]. | [elab engrav vignette, 2 cupids engaged in assaying; signed I. Adam, fe.] | A Vienne | [double rule] | Aux Dépens de J.V.Degen, par I.Alberti 1790.

Vol II title same except space used for author's name is enlarged and substitutes lines as follow: Sels Mineraux;Bitumes Fossiles; | Substances Metalliques.

8°: [14], [34], 500, [2]p; only text signed: A-Hh^{8}, Ii^{2}. Vol. 2: [2], [34], [6], 499, [66]p., text & indexes signed A-Nn^{8}, Oo. In vol 1 the tabular review of species is after publ note & author pref, but in 2, same inserted between title f and author pref. Each vol ornamented with several exquisite head- & tailpcs with central motifs suggesting minerals or alchemical symbols where appropriate for minerals being described. Engraved pl of mineral crystals. 18.2 x 11.3 cm(7 1/4 x 4 1/2 in). Cut; in contemp binding. Dewalque 64; JSL. GS 7-1043. Agassiz I, 366.

Cont: I: tp; publ note; author pref; tab review; text; pl explan; errata f; engrav pl; II: tp; tab review; pref; text; addits to all parts; index of analysed minerals; alphabet index to species and errata.

This is far more than a mere listing of De Raab's collection because Born inserts notes and comments, cites references, and includes chemical analyses where he could find them in the literature. In addition, where any De Raab specimen could be compared to an illustration appearing elsewhere, he notes the place or page and cites the work. Gemstones, rough & cut, were included in large number in collection, mostly in the first volume, particularly quartz types under "Terres et Pierres Siliceuses" of p 3-53, and other gemstones under "Gemmes," p 53-192, the last including diamond, ruby, spinel, sapphire,

emerald, chrysolite, aquamarine, topaz, jade, moonstone, feldspars, etc. Brief mentions appear elsewhere of meerschaum from Asia Minor, serpentine, marbles, alabasters, obsidians, and amber(vol 2). Localities are given.

BORN, I v, see FERBER, J J

795. BÖRNER, RUDOLF

Was ist das für ein Stein? | Tabelle zum Bestimmen | von 200 wichtigen Mineralien | und Gesteinen | von Dr.Rudolf Börner | Mit zwölf Farbtafeln nach Originalen von Walter Wild | (enthaltend 135 Mineralien und Gesteine) | und zahlreichen Textbildern | [logo] | ["Auflage," i e, printing no] | [rule] | Franckh'sche Verlagshandlung, Stuttgart [1938]

Series" "Kosmos-Naturführer."

8°: 120, [8 advert]p; 12 tip-in glossy col pls, one is front; 23 fig; ca 150 small crystal drawings in margins. Pale tan cloth, brown lett cover & spine; col d.j., col min specimens on cover; resume, series description. Flexible bds. 19.5 x 13.2 cm(7 5/8 x 5 1/4 in). Cut. RM 3.20 paper; 4.20 cloth. JSL.

Cont: ser tp; pl; tp; publ data; tab cont; fwd; introd; 10 sects; biblio(p 166, 18 entries); index; adverts.

Popular introduction to minerals & rocks and how to identify them using the extensive table of properties & features on p 30-81. Text covers geochemistry, identification procedures, petrology, historical geology, geologic time, useful minerals & rocks, rarer metals & uses, non-metallic raw materials, and gemstones(p 113-5). Handsome, finely detailed colorplates after watercolors by Walter Wild of Idar-Oberstein, Germany, and among the best ever for minerals & gemstones. Two of the plates show cut & rough gem materials. Very successful work, passing through many editions & printings.

796. -----1940(?), 15.-20. Tausend. 8°: 120 p; pls bound-in at end of text; tables with color margin bands corresponding to mineral colors. The issue in the next interval(s) not seen.

797. ----1952, "39.-48. Tausend," with title change

Welcher Stein ist das? | Tabellen zum Bestimmen der wichtigsten | Mineralien, Edelsteine und Gesteine | Von | Dr. Rudolf Börner | Dozent für Chemie und Baustoffkunde am Polyteknikum Giessen | Mit 14 Farbtafeln nach Originalen von Walter Wild | (enthaltend 160 Mineralie, Edelsteine und Gesteine) | und zahlreichen Textbildern | [logo] | Kosmos · Gesellschaft Der Naturfreunde | Franckh'sche Verlagshandlung Stuttgart [1952]

8°: 165 p + [3]p adverts; 14 tip-in col pls; 7 fig, many crystal drawings. Dull orange unf cloth, brown lett cover & spine. Flexible bds. Col dj. 19.5 x 13.1 cm(7 5/8 x 13.1 in). Cut. Paper 5.80, cloth 7.50 DM. LC 53-24247; JSL.

Cont: ser tp; tp; publ data; tab cont; pls index + correction slip insert; fwd; fwd this printing; text; index; advert.

Entirely revised, much improved, contents rearranged, new material & new species added; new blowpiping instructions. Gemstones sections greatly expanded, introd to scientific gemology, identification tabs according to color; glossary; petrology. Four col plates of gemstones: 2 from first edit but printed against black instead of pale backgrounds; 2 additional plates from G O Wild's *Praktikum der Edelsteinkunde*, 1936, which see, also by Walter Wild. JSL.

798. -----1953 "49.-58. Tausend," revised 168 p(first f is inside cover pastedown); black glossy paper bds, malachite specimen on cover; cm-rule on back cover edge. Cloth version not seen. 20.1 x 13.2 cm(8 x 5 1/4 in). Cut; corners rounded. Paper 7.20, cloth 8.50 DM. Added material to gemstones; biblio p 168, 70 entries; no advert. Intervening printing not seen.

799. -----1961 "84.-98. Tausend," revised, new illust 176 p; 14 col pls, bound- & tip-in, all photos except 4 orig col pls by Wild; 224 text figs. Black glossy paper,malachite on cover. Cloth version not seen. 19.8 x 13.2 cm(7 3/4 x 5 1/4 in). Cut; corners rounded. Paper 6.80, cloth 3.80 DM. JSL. Many minor revisions, some additions; photo color plates far less attractive than those taken from Wild's paintings.

800. -----1963 "99.-118. Tausend," revised 177, [3 advert]p; same ill; dull orange cloth; brown cover & spine lett; col dj(malachite). 19.5 x 13 cm (7 5/8 x 5 1/4 in). Cut. Paper 7.80, cloth 9.80 DM. JSL. Large revision in bibliography.

801.-----1965 "119.-148. Tausend," or 13th edit., rev, new ills

Dr. Rudolf Börner | Welcher Stein ist das? | Tabellen zum Bestimmen der wichtigsten | Mineralie, Edelsteine und Gesteine | Mit 224 Textbildern und | 191 Mineralien, Edelsteinen und Gesteine | auf 16 farbigen Tafeln | 13., verbesserte und erweiterte Auflage | [logo] | Kosmos · Gesellschaft Der Naturfreunde | Franckh'sche Verlagshandlung Stuttgart [1965]

8°: 201, [3 advert]p; 16 col photo pls on 8 bound-in glossy f; 224 fig. Pale tan unf cloth, brown lett cover & spine; col dj, gem & min specimen on cover, resume, publ advert, cm-rule. 19.5 x 13.1 cm (7 7/8 x 5 1/8 in). Cut. Paper version not seen. Paper 19.80, cloth 12.80 DM. JSL.

Cont: ser tp; tp; credits & publ data; tab cont; pls index; fwds; text; biblio(p 191-3, 181 entries); index; advert.

Two col photo pls added; minor revisions many places; larger biblio.

802. -----1962 ist Engl edit

Rudolf Börner | Minerals, Rocks, And | Gemstones | Translated and edited by | W.Mykura | Oliver And Boyd | Edinburgh And London [1962]

8°: xi, [1 blank], 250, [2 blank]p; 14 col pls bound-in (4 are orig W Wild watercolors; remainder photos), 7 fig. Purple cloth, silver lett & rules on black spine panel, silver wreath. Col dj, resume, advert. 22.3 x 14 cm(8 3/4 x 5 1/2 in). Cut. 25s net. JSL.

Cont: 1/2tp; tp; publ data; transl pref; pref; tab cont; pls list; text; biblio (p 239-40, 30 entries); index; blank f.

Specially adapted for use in Great Britain; emphasizes British localities & Brit rock classification; gives uses of minerals; fuller glossary. Rev B W Anderson, *The Gemm*, 31, no 373, 1962, p 153-4.

803. -----1966 reprint Addit data & col pls. Same pag; 16 col pls(now 6 for gemstones; Wild pls eliminated). Black cloth, pale purple spine panel silver lett, rules, wreath. Same size. Price now 30s. JSL. Minor changes in several places. Rev *G & G*, 12, 3, 1966, p 95, notes some errors; *Min Mag*, 35, no 275, 1966, p 1025-6, "excellent tables."

804. -----1965 Dutch edit Welke Steen is dat? verlag W.J.Thieme & Cie., Zutphen, not seen.

BOROWSKI, ELIE

Polish assyriologist; fled Poland 1940, interned Switzerland; employed Musée d'Art et Histoire, Genf, spec study cylinders & seals.

805. -----1947.

Elie Borowski | Cylindres | Et Cachets Orientaux | Conservés Dans Les Collections Suisses | Contribution à l'histoire de la glyptique en Asie Occidentale | [rule] | = Artibus Asiae Supplementum III-VI | En collaboration avec Heinz Mode | Préface de Walter Baumgartner | Professeur à l'Université de Balê | Tome I | Mésopotamie | De la période préhistorique d'Ourouk jusqu'à la | Ire Dynastie de Babylone | [logo] | MCMXLVII | [rule] | Éditions Artibus Asiae · Ascona/Suisse [1947]

"Artibus Asiae, Curat Editionem Alfred Salmony - Supplementum Tertium."

8°: [2 blank], XIV, 188, [1], [3 blank]p. + 10 glossy pls, one per f, bound-in. Maroon unf cloth, gold tit1e & logo on cover; gold spine title. 23.9 x 17 cm(9 1/2 x 6 3/4 in). Cut. Also in tan paper wrap, flaps fold inward over heavy white plain wrap; black cover lett. 25 x 17.8 cm(9 7/8 x 7 in). Uncut. Cloth version "Il été tiré... 12 exemplaires hors commerce numérotés de 1 a 12." JSL.

Cont: blank f; ser tp; tp; publ data; dedic; fwd; pref; introd; 3 chs; biblio(p 181-4, ca 50 entries); pls index; tab cont; errata; blank f; pls.

Brief descriptions, etc, of Swiss collections, methods of study used, classification scheme, important contributions, bibliographical notes, archeological studies in the Near East of civilizations producing seals, notes on seals, descriptions.

806. BOSC, ERNEST(1837-)

Les Ivoires | Par | Ernest Bosc | [rule] | Librairie De L'Art | 29, Cité D'Antin, Paris | [rule] | 1889

At head of title: "Bibliothèque Populaire Des Écoles De Dessin... Deuxième série..."

8°: [3], 73, [2], [1 blank]p; 23 woodcuts. Print wrap. 15.5 x 11.3 cm(6 1/8 x 4 1/2 in). JSL.

Cont: ser tp; publ data; tp; 16 unnumb chs; tab cont; ill list; blank p.

Concise, useful information on ivory in first 7 chs: varieties, properties, history, transformations of (by heat, water, chemicals,etc), bleaching, coloring, faking, and artificial ivory; remaining chs on famous ivory carvings and makers in Europe, from 10th to 19th centuries.

807. BOSCARDIN, M; CECCUZZI, B & DE MICHELE, V Osservazioni sui vetri naturali italiani. *La Gemmologia*, Milano, 4, 3/4, 1978, p 13-29, 15 photos, 5 tabs, 20 ref. Natural glasses in Italy suitable for gems or ornament, i e, obsidians: sources, properties, fine structural details, etc.

808. BOSCH FIGUEROA, JOSE MARIA & MONÉS ROBERDEAU, LUIS

diamantes [sic] | Genesis, Talla, Clasificacion, Sintesis | Jose Maria Bosch Figueroa | Profesor de Consejo Superior de Investigaciones Científicas | - Instituto Jaime Almera, Barcelona - y de la | Escuela de Gemología de la Universidad de Barcelona. | Luis Mones Roberdeau | Graduado en Gemología, F.G.A., | Profesor de la Escuela de Gemología | de la Universidad de Barcelona | Editorial EnTASA, Publicaciones Técnicas. Madrid. [1978] ["Colección Gemologia Y Arte, Vol.II."]

Cont: blank f; 1/2tp; tp; publ data; pref & ackn; tab cont; 15 chs; col pl sect(24 f); index. Biblios at ch ends.

Very large & complete treatise on diamond in all aspects: mineralogy, crystallography, properties, origin; deposits and their discovery & exploitation; classifying roughs for gem or techical purposes, diamond cutting & history, cutting styles, grading cut gems, weighing & estimating weights, synthesis, identification, and at the end, the diamond in the cultural history of man. Enormous amount of information but topics treated in a disjointed sequence, sometimes puzzlingly so. Further, some topics treated at great length, eg mining methods, while others like famous diamonds, lore, etc, are treated cursorily. Many photos poorly reproduced; col illustrations lumped together in the back require reader to jump back and forth from text to referenced photo.

809. BOSELLI, ENRICO

Manuali Hoepli | [wavy rule] | Gioielleria, Oreficeria | Oro, Argento E Platino. | Di | Enrico Boselli | [rule] | Con 125 Incisioni Intercalate Nel Testo. | [rule] | [logo] | Ulrico Hoepli | Editore-Librajo Della Real Casa | Milano | [vertical rule] | 1889. [title in red & black]

8°: [4], 335, [1 blank], [8 advert]p; 125 ills. Blue, ribbed cloth, gold orn on cover, silver title; spine silver title; dark brownish- green patterned endp. 15.1 x 10 cm(5 7/8 x 4 in). Ae stained red. L 20. USGS Kunz Coll, GS 34-439.

Cont: blank p; publ data; tp; publ data; text; index; blank p; advert.

A manual for jewelers, with gemstones described on p 213-88 in the usual fashion and including an extended table of properties as well as descriptions amd remarks on curious lore.

810. BOSELLI, GASPARD

Saggio Di Litografia | Ossia | Descrizione | Delle Qualità E Valore | Delle | Pietre, Coagulazioni | E Dei | Metalli Preziosi | Per Istruzione Dei Giojelleri | E Degli Amatori. | Milano, 1820 | Presso Giuseppe Pagliani Stampatore-Librajo | Sulla piazza di S.Alessandro n.3963.

4°: 112, [2]p. Plain gray printer's wrap. 20.8 x 13.2 cm(8 1/4 x 5 1/4 in). Uncut. USGS Kunz Coll, GS 34-292.

Cont: plain f supplied; tp; publ data; tab cont; pref; 4 text parts; author note; errata; blank f supplied.

First part of 14 chs provides extended description of diamond and shorter treatments of standard gemstones of higher value and rock crystal, to p 47, while the second part treats the less valuable gemstones as chalcedonic varieties of quartz, opal, nephrite, and others, in 15 chs, to p 72. The third part describes "concretions and coagulations," which terms embrace such diverse substances as amber, coral, malachite, pearl, and turquoise. The last part is on precious metals.

811. BÖSE, ROBERT. Optische und spektrographische Untersuchungen an Beryllen, insbesondere bei höheren Temperaturen. Von Robert Böse(Harburg-Wilhelmsburg). Mit Taf. XVII-XXII, 16 Textabbildungen und 36 Tabellen im Text. Sep from: *N Jb Min*, B-Bd 70, Abt A, 1936, p 467-570;

edgestapled pamphlet, the 11 photos are on one side of 6 bound-in glossy f. JSL. Crystals of beryl from Brazil, Colombia, California, S W Africa, Madagascar, Urals & Elba investigated to determine refractive indices, coefficients of expansion, decomposition points & products of decomp through a range of elevated temp; minor elements found spectroscopically; much fundamental data on beryl(including gem vars) published here for first time.

BOSSHART, G, see SCHMETZER, K, et al

BOSSI, LUIGI (1758-1835)

Learned Ital litterateur, expert in Greek, Hebrew, Latin; antiquary & historian of the Catholic Church; naturalist; legal fac U Pavia. *Diz Biog Ital*, 13, p 323- 7; Pogg I, p 248-9.

812. -----1786

Osservazioni | Sulle Gemme Incise | Scritte Da Un Accademico Etrusco | In Proposito | Delle Istituzioni Glittografiche | Recentemente pubblicate | Dal Dottor | Giuseppe Antonio Aldini | Di Cesena. | [engrav oval gem; caption "In Ametisto"] | In Milano [orn brackets] | MDCCLXXXVI. | [row of orns] | Nella Stamperia di Francesco Togliani, e Francesco Pulini, | In Piazza Fontana. [1786]

8°: 56, [3], [1 blank]p; A-C^8, D^4, lambda^2; 2 text engrv. 20 x 12.5 cm 7 7/8 x 5 in). Uncut. USGS, Kunz Coll, GS 34-315.

Cont: tp; text; index of gem engravers; biblio(p 56); tab cont; blank p.

Critical essay on Aldini's *Istituzioni Glittografiche*, 1785, which see; many short chapters on gemstones & properties, falsifications, colors, induced colors, omissions by Aldini, and other topics.

813. -----1795

Spiegazione | Di Una Raccolta Di Gemme | Incise Dagli Antiche | Con Osservazione | Risguardanti la Religione, i Costumi, e la Storia | dell' Arte degli Antichi Popoli | Di | Luigi Bossi | Patrizio, Dott.Coll., E Can. Ord. Della Metrop. | Di Milano, Conte Delle Tre Valli, | Socio Delle Reali Accad. Di Mantova, E Di Firenze, | Della Patriotica Di Milano, Dell' Etrusca | Di Cortona ec. | [rule] | Vol.I. con figure in Rame. | [square engrav vignette, a large oval engrav gem, surround of 9 smaller gems] | Milano o)(o MDCCXCV. | [rule] | Nell'Imperial Monist. di s. Ambrogio Magg. Con Licenza. [1795] [Vol I all publ]

8°: [1]f bound-in + lix, [1 blank], 488 p; engrav vol title ahead of printed title, bound-in; 7 engrav pls. bound-in at end of text; ch orns. 21 x 13.2 cm(8 1/4 x 5 1/8 in). Cut. USGS Kunz Coll, GS 34-579.

Cont: vol tp; tp; pref; works cited(p xxvij-l, ca 200 entries); tab cont; 24 chs; index to figs on pls; explan of front vignette; addit & corr; pls.

Elaborate descriptions and remarks touching many aspects of the culture of peoples who created the gems depicted on the plates. These are described systematically according to their order on the plates.

814. -----1819

Dizionario | Portatile | Di | Geologia, Litologia E Mineralogia | Del Cavaliere | Luigi Bossi | Socio Di Varie Accademie | Con Otto Tavole In Rame | [taper rule] | Milano | Presso Gio.Pietro Giegler, librajo, | Corsia de'Servi, num.° 603. | 1819.

12°: XVI, 428, [2]p; titlef supplied; 8 engrav pls bound-in. 17.7 x 10.5 cm(6 7/8 x 4 1/8 in). Cut. JSL; Dewalque 65; Pogg I, p 248-9. Agassiz I, 375.

Cont: tp; pref; explan of pls; text; suppl; errata.

Dictionary of geological, petrological, and mineralogical names and terms, including many of gemstones from aquamarine to zircon. Entries are fairly complete: brief accounts of properties, forms taken, sources, etc, references to authorities but by name only. Plates attractive, clear but not accurate insofar as being faithful to objects depicted; include eye agate, agate geode, crystal forms, dendritic agate, graphic granite. Pl VI, dendrites, p 224, is hand-colored.

815. BOTTGE, ROBERT

Basic | Soapstone | Carving | by Bob Bottge [title on cover, 4 photos of carvings; no place, date, price, or other data!; ca 1980]

Centerstapled: 31, [1 blank]p; 42 photos, also p of line drawings. 21.6 x 13.7 cm(8 1/2 x 5 3/8 in). Cut. JSL.

Concise, clear instructions: obtaining tools & supplies, sawing, filing, polishing, etc; suggested projects made by author and explained as he goes along with each(ptarmigan, whale, seal, bear).

816. BÖTTIGER, or BOETTIGER, CARL or KARL AUGUST(1760-1835)

Ueber die Aechtheit und das Vaterland | der | antiken Onyxkameen | von ausserordentlichen Grösse. | [taper rule] | Eine | archäologische Abhandlung | von | C.A.Böttiger. | [rule] | Aus dem 75sten Bande der Neuen Bibliothek der | schönen Wissenschaften besonders abgedruckt. | [rule] | Leipzig, | im Verlag der Dyckischen Buchhandlung. | 1796.

8°: 40 p; A-B^8, C^4. 20.5 x 11.8 cm(8 x 4 5/8 in). Cut. USGS Kunz Coll.

The author, an eminent Ger archeologist, writer, and friend of Goethe, describes the extremely large onyx-type cameos in European collections and speculates as to their authenticity and origins.

817. BOUCHON-BRANDELY, GERMAIN(1847-1893)

Extraits Du Journal Officiel | des 23, 25, 26 et 27 Juin 1885 | [rule] | Rapport | Au | Ministre De La Marine Et Des Colonies | Par | M. Bouchon-Brandely | Secrétaire du College de France | Sur La | Pêche Et La Culture | Des Huitres Perlières | A Tahiti | [rule] | Pêcheries De L'Archipel Tuamotu | [rule] | Perles Et Nacre | [rule] | Les Perles | Tout casse, tout passe, tout lasse, dit le pro= | verbe. Les Perles ont échappe a cette inéluct= | table loi, triomphe de cette inexorable sentence. | La mode ne s'en est lassée, le gout ne s'en | est passé.

8°: 73, [1 blank], [1], [1 blank]p. Pale green paper wrap, title on cover. 21 x 13.4 cm(8 1/4 x 5 1/4 in). Cut. USGS Kunz Coll.

Cont: tp; text; hlank p; print data; blank p.

On the nacreous, pearl-bearing oysters of Tahiti and the Tuamotu Archipelago: quality, sizes, values of pearls, origin, formation, etc, the mollusk itself, the fisheries, nacre, impoverishment of the banks, modes of fishing, impoverishment of lagoons in other islands and reasons therefor, need to promote the fishery, enemies of the oyster, nacre color, and

organisational and other matters calculated to provide a full picture of the current state of the fishery and what is needed to improve it.

818. -----1885, Engl transl XVII.- Pearls And Mother-Of-Pearl At Tahiti And The Tuamotu Archipelago. By G.Bouchon-Brandely, Secretary of the College of France. *Report of the United States Fish Commission*, 1885, Washington, D.C., 1885, p 353-77. "Translated... by Herman Jacobson. For abstract of an article by Bouchon-Brandely on a like subject see F.C.Bulletin, 1885, p 292 [-94]." JSL.

819. BOUDEULLE, MICHÈLE, and others

Quartz | Silice | Edition de l'Association Regionale De Paleontologie- | Prehistoire et des Amis Du Museum De Lyon-1979 [encl in single-rule frame] [Imprimerie Lescuyer, Lyon, France]

8°: 144 p; many col photos on 16 glossy pls bound-in; 56 b&w photo pls; many unnumb text ill. Stiff col photo wrap, back cover plain white. 21.5 x 19 cm(8 1/2 x 7 1/2 in). Cut. ISBN 2.902913.02.8.

Cont: tp; publ data; pref; tab cont; text; author list; photo credits; contributing museums & collections.

A very fine survey of quartz and other silica minerals, inspired by an exhibit in the Musée Guimet d'Histoire naturelle, Lyon, 1979-80, with the triple themes of quartz as a mineral, as an ornamental material, and as a raw material of industry. The text follows this scheme and discusses quartz in nature in its many manifestations and depicting superb specimens, and giving its mineralogy, crystallography, varieties, etc, quartz as a gem and ornamental material in part two, and lastly, quartz in technology throughout the ages and including applications in tools, in the making of glass, in modern piezoelectric applications, and how synthesized. There is much on quartz as a gemstone, not neglecting its cryptocrystalline varieties. Other authors: Alexis Chemette, Louis David, Pierre Fumey, Gabrielle Latreille, Pierre Michel, Roland Mourer, Paul Nicier, Paul Pomarais.

820. BOUÉ, PLACIDE

Traité | D'Orfevrerie, Bijouterie | Et Joaillerie; | Contenant la description detaillée des caractères physi- | ques et chimiques des métaux et des pierres précieuses | qui constituent les matières premières de cette belle | branche de l'industrie française; de leur extraction du | sein de la terre; de l'art de les essayer, de les évaluer | et de les mettre en ouevre; et généralement tout ce qui | se rapporte à la théorie ou a la pratique de ces trois | arts, qui, par leur analogie, n'en font qu'un; | Par | Placide Boué. | [rule] | Tome Premier[-Deuxieme]. | [rule] | [floral orn] | A Paris, | Chez Delaunay, Libraire, au Palais-Royal, péristyle | Valois, grande galerie de pierre, n°s 182 et 183. | Et chez MM^{rs} [to right, a curved bracket enclosing 6 lines of other booksellers] | Commissionnaires en orfevrerie, bijouterie et joaillerie, à Paris. | [rule] | 1832.

8°: vol 1: xxiv, 326 p, 3 fold bound-in engrav pls at end of text. 19.8 x 13 cm(7 3/4 x 5 1/8 in). Cut. JSL. Cont: 1/2tp; tp; print data & errata; introd; text; pls.

Vol 2: 426 p + [2 blank]p; 4 fold bound-in engrav pls at end of vol. Cont: 12/tp; to; print data; text; index to both vols; errata; blank f; pls.

A remarkable work written by a Parisian jeweler and aimed at both the general public and members of the trade; it contains a wealth of information reflecting the state of contemporary knowledge at the time, but which A E Farn, writing about this work in *J Gemm*, 9, 8, 1964, p 261-2, considers to be "very much in accord with today's gemmological thinking," and, later, "a well written, authoritative book, refreshingly tackled, very much in advance of its day." Unfortunately, he omits any biographical details, possibly because he could not (like myself) find any. The first volume contains a thorough exposition of the mining and metallurgy of gold, silver and platinum as used in the jewelry arts and includes sections on alloys, alloying, refining, assaying, preparing solders, and other practical manufacturing information. However, it is the second volume that is of primary interest to the gemologist; it begins with an extended treatise on practical gemology, use of balances for accurate SG determinations, which property Boué considers extremely important, pointing out how SG serves readily to distinguish gemstones which may be confusingly similar in appearance and color. Next is given a section on diamond mining, especially in Brazil, sources of the stones, and general remarks on all classes of diamonds regardless of source. Other sections treat important to conmon gemstones, the agents, powders, fluxes, acids, and so forth, used by the lapidary or jeweler, and French law regulating the activities of goldsmiths and jewelers. The engraved plates furnish many figures of crystal forms, assay equipment, SG balances, accessories, styles of faceted and cabochon gems, diameters of cut diamonds vs weights and values in currency, a table of specific gravities of gemstones, pearl diameters vs grains & numbers per ounce, a sketch of a pearl shell, pearling dragline & net, magnets, nautilus shell, and sketches of several aspects of the Regent diamond.

821. BOUFFIER, H

Die | Kameeschneidekunst | für Dilettanten. | Mit 45 Illustrationen. | Von | H.Bouffier, | acad. Zeichenlehrer an der Kunst- u. Baugewerbeschule in Wiesbaden. | [orn rule] | Leipzig. | Verlag von Moritz Ruhl. [nd]

8°: 38, [2 advert]p; 45 fig. Pale yellow wrap, title in red & black on cover with 2 cameos. 23.2 x 14.9 cm(9 1/8 x 5 7/8 in). Uncut. USGS Kunz Coll.

Cont: 1/2/tp; tp; other author works; tab cont; fwd; text; advert.

Virtually unknown work on cameo carving for the amateur; not referenced in any standard work. Treats history of the art, materials (shell), tools & implements, design, cementing to backing, carving procedure, making figures on whole shells, producing heraldic "coloring" by surface texturing, smoothing, polishing, etc. Clear, concise, still useful. Rare.

BOURASSÉ, J J, see MARBOD, 1854.

BOURNON, JACQUES LOUIS, *Comte de*(1751-1825)

Wealthy landowner in France; officer in Fr army; during Napoleon's reign emigrated to Engl; ret to Fr in the Restoration; eventually became dir Imper Mineral Cabinet; mineralogist, noted for shrewd, useful observations in many published papers. Pogg I, p 261-2; DSB II, p 355.

822. -----1785 Essai sur la lithologie des environs de Saint-Étienne-en-Forez, et sur l'origine de ses charbons de pierre, avec des observations sur les silex, pétrosilex, jaspes et granits. Np, 1785, 8°: XVIII, 104 p. Not seen.

823. -----1798 An analytical description of the crystalline forms of corundum, from the East Indies and from China. *Phil Trans Roy Soc London*, 1798, p 428-48, 1 pl. This memoir included in Charles Greville's "On the corundum stone from Asia," ibid, p 403-48, Which see.

824. -----1802 IX. Description of the Corundum Stone, and its Varieties, commonly known by the Names of Oriental Ruby, Sapphire, &c; with Observations on some other mineral Substances. By the Count de Bournon, F.R.S. Read March 25, 1802. *Phil Trans Roy Soc London*, 92, 1802, p 233- 326, engrav pls VI-IX; also publ sep. 4°. USGS Kunz Coll, GS 34-580.

A somewhat rambling but eventually thorough relation of the extant knowledge of corundum in its common and gem varieties, incorporating the data contained in a previous paper communicated to the Royal Society in conjunction with Mr Greville(*Phil Trans*, 1798, p 428). Gives history of corundum, latest mineralogical findings on properties, etc by Romé Delisle and Werner, nomenclatural problems, color varieties, diaphaneity, hardness, etc, also crystallography in detail, chatoyancy and asterism and relation to crystallographic directions, chemical analyses, fracture & parting, host matrixes, accessory minerals, minerals resembling corundum and how distinguished, minerals found with corundum in Ceylon gem gravels and elsewhere in the world. Plates: crystal forms, crystal surface markings, partings, inclusions, crystal forms of other species mentioned in the text. Encyclopedic, very important, and first paper to discuss this species from scientific viewpoint; it is also the first paper in English to provide a mineralogy of the gem gravels of Ceylon.

825. -----1802 Sur l'identité spécifique du corindon et de la télésie. Extrait d'un mémoire intitulé: "Description of the corundum stone and its varieties, etc." *J des Mines*, Paris, 14, 1802, p 1-28, 81-105. Not seen.

826. -----1813

Catalogue | De La | Collection Minéralogique | Du | Comte De Bournon, | Membre De La Société Royale De Londres, De Celle De | Linnée, Et De Celle Géologique De La Même Ville, | De Celle Wernérienne D' Edimbourg, Et | De Plusiers Des Académies Des | Sciences De France, | Fait par lui-même. | Et Dans Lequel Sont Placés | Plusiers Observations Et Faits Intéressants | Qui jusqu'ici n'avoient pas été décrits, &c. | Ainsi Qu-Une | Réponse Au Mémoire | De M.L'Abbé Hauy, | Concernant la Simplicité des Lois auxquelles est soumise la | Structure des Cristaux, &c. | [double rule] | A Londres: | De l'Imprimerie R.Juigné, 17, Margaret Street, Cavendish Square. | Se vend chez L.Déconchy, 100, New Bond Street. | [rule] | 1813.

8°: [2], cxiv, 563, [1 blank]p; pi, a-g^8, h^7, B-Nn^8, Oo^2. 21.5 x 13.2 cm(8 1/2 x 5 1/4 in). Cut. USGS Kunz Coll, GS 34-440; Dewalque 69.

Cont: tp; blank p; prelim discourse; catalog to p 468; remarks on Haüy's, paper on simplicity of laws governing crystal structure; remarks on Tonnelier's comments on Bournon's *Traité de la Chaux Carbonatée*, 1808; index; blank p. Agassiz I, 390.

Much detailed and annotated description of Bournon's mineral collection in which there were numerous specimens of gemstones and diamonds; identical text republished with new title in 1817, see following.

827. -----1817, same, new title

Catalogue | De | La Collection | Minéralogique Particulière | Du Roi, | Appartenant À L'Auteur De Ce Même Catalogue, | lorsque Sa Majesté en a fait l'acquisition. | Par M.Le Comte De Bournon, |... [9 lines, honors, etc.]... | [taper rule] | Paris, | De L'Imprimerie D'Abel Lanoe. | [rule] | 1817.

8°: xv, [1 blank],[1], [1 blank], 468 [recte, 563], [1 blank]p.; [more? - imperf copy examined]. 21.2 x 13.2 cm(8 3/8 x 5 1/4 in). Uncut. USGS Kunz Coll. Text identical to above,

828. -----1815, recte 1816

Catalogue Raisonné | Des | Diamants | Dans Le Cabinet | De | Sir Abraham Hume, Bart. | Par | M. Le Comte De Bournon. | [double rule] | Avec Planches. | [double rule] | A Londres: | Chez J.Murray, Albemarle Street. | De L'Imprimerie De Haines Et Turner, Margaret Street, | Cavendish Square. | 1815. [A note of apology for late issue of pls is dated January, 1816]

4°: XXI, [1 blank], [1], [1 blank], 33, [1 blank]p; a^2, b^4, c^4, [d]^2, B-E^4 + [1]f supplied; fold tab of diamond forms bound-in betw p XVI-XVII; 4 engrav pls bound-in at end of text. 28.6 x 23.3 cm(11 1/4 x 9 1/8 in). Cropped. Pale tan paper.

Cont: tp; pref; ltr Bournon to Hume; note on pls delay; ltr; fold tab; index to pls; observations; catalog tp; catalog; blank p.; pls.

First edit; simultaneously publ in Fr & Engl. Briefly describes diamond crystals in Sir Abraham Hume's collection, preceded by an important dissertation on the crystal structure of diamond in terms of the primitive or "integral cell" concept of Haüy, with which Bournon sharply disagrees, maintaining that the cell shape is octahedral and not tetrahedral as suggested by Haüy; justification for disagreement is given while Fig 3 of Pl 1 depicts Bournon's idea of interlocking regular octahedra forming larger crystals. Pls also depict diamond crystals, (83 figs), possibly the first such elaborate and realistic representation of the true forms of diamond to be published.

A Hume (1748-1838), independently wealthy arts patron, amassed a famous collection of minerals and precious stones, elected FRS 1775; a founder of Geological Society of London,& v president 1809-13; also edited the present work and provided an introduction thereto. DNB 1, p 1029; Pogg I, 1159. *R & M*, 63, 2, 1988, 144-5.

829. -----1815, in English

A | Descriptive Catalogue | Of | Diamonds | In The Cabinet | Of | Sir Abraham Hume, Bart. M.P. | By | The Count De Bournon. | [double rule] | With Plates | [double rule] | Translated From The French. | London: | Printed For John Murray, Albemarle Street, | By Haines And Turner, | Margaret Street, | Cavendish Square. | 1815. [see date note above]

4°: XIX [recte XXI], [1 blank], [1], [1 blank], 33, [1]p; fold tab bound-in; 4 engrav pls preceded by blank f bound-in. Publisher's paper-covered bds, cloth spine, gilt. 28.7 x x 22.4 cm(11 3/8 x 8 7/8 in). Uncut. White paper. USGS Kunz Coll, GS 34-256; JSL.

Cont: tp; advert; ltr title; pl delay note; ltr; tab; observations & errata; catalog tp; catalog; publ data; fold tab; pls.

830. -----1815, 2nd edit but not so stated

Same title.

4°: XIX [*recte*, XXI], [1 blank], 37, [1 blank]p; 5 engrav pls without blank spacing f but hinged on outer edges of blank f to fold inward(probably a special binding); tab now betw p XVI-XVII. 29.5 x 23.2 cm(11 5/8 x 9 1/8 in). Cut. Text paper thicker, stiffer, decidedly yellow tinged. Add pl signed "Js.Basire sculpt.-Levy delt." All other pls as before, that is, signed by Lowry as engrav & Bournon as designer. JSL.

Cont: tp; advert; ltr tp; delay note; ltr; tab fold; text tab; observations & errata; catalog(sans tp); publ data; pls.

Specimens in catalog now increased to 128 from 107; added pl depicts specimens between nos 108-128, while the figures are now increased to 90 total. Reprinted from the same standing type up to where additional text begins. I have not seen any reference to this substantially differing edition which I call the second, even though there is no indication in the text that this version differs from its predecessors.

831. -----1823

Observations | Sur | Quelques-Uns Des Minéraux, | Soit De l'Ile De Ceylan, Soit De La Côte De Coromandel, | Rapportés, Par M.Leschenault De Latour. | Par M. le Comte de Bournon, |... [8 lines of honors, mbrs] ... | [orn] | Paris, | Chez Frères Tilliard, Libraires, Rue Haute-Feuille, N° 22. | [rule] | 1823. | A Londres, chez Dulau et Ce., Soho Square.

4°: [4], 35, [1 blank]p. Tan wrap, title on cover in orn frame; orn frame & orn back cover. 25.9 x 20.2 cm(10 1/8 x 8 in). Uncut. USGS Kunz Coll, GS 34-710.

Examines and describes in detail seven specimens of spinel in matrix from Ceylon obtained by Jean Baptiste Louis Claude Theodore Leschenault De Latour(1773-1820); discusses origin of Ceylon gemstones as obtained in alluvial deposits; brief note on occurrence of graphite and a substantial note on feldspar moonstones, several types of rock, and Ceylon zircon.

BOUŠKA, VLADIMÍR

Czechoslovakian geologist, geochemist, spec meteorites/tektites, esp moldavites; wrote numerous papers on the latter.

832. -----1964 Geology and stratigraphy of moldavite occurrences. *Geochim Cosmochim Acta* 28, 1964, p 921-30, fold map. Describes moldavites from three geologically distinct sedimentary environments in two regions of SW Czechoslovakia; ocurrences plotted on map; 46 refs.

833. -----1966 Geologie a stratigrafie vltavínových nalezišť v Čechách a na Moravě. *Sb Narodniho Muzea v Praze(Acta Musei Nationalis Pragae)*, 22, 2, 1966, p 67-88, 7 photos, 2 maps(1 fold). JSL. As above, listing 200 verified moldavite finds; deposits described, and moldavites which appear characteristic of each type deposit; finds plotted on maps. Biblio 65 entries; Engl summ p 87-8.

834. -----1972 Geology of the moldavite-bearing sediments and the distribution of moldavites. *Acta Universitatis Carolinae*, Praha, Geologica No 1, 1972, p 1-29, 11 fig, 2 tab, biblio 36 entries. JSL. Moldavites were never found in situ; redeposited in 4 groups of occurrences; original fall inhomogeneous, ie, specimens occur of varying color, composition, inclusions, etc; highly silicic sedimentary rock suggested as impact source.

835. BOUŠKA, V & ROST, R Celkova vaha vltavinu. *Sb Narodniho Muzea v Praze (Acta Musei Nationalis Pragae)*, 24, B, 1968, p 153-81. Not seen.

836. BOUŠKA, V, FRYDRYCH, M & TURNOVEC, I Moldavites as precious stones. *Zs Dt Gemmol Ges*, Jg 34, 3/4, 1985, p 83-91, 8 fig(3 col photos), 10 ref. Brief history ornamental use; cut gems in jewelry; recent trends in using natural forms in jewelry; properties, characteristics, quality classes; settings.

BOUŠKA, V, see BAUER, J, et al,

BOUŠKA, V, see SBORNIK NARODNIHO MUZEA

837. BOUTAN, EDMOND

Encyclopédie | Chimique | Publiée, Sous La Dircction De | M. Fremy | ... [41 lines of honors, contribs] ... | Tome II | Metalloïdes | Complément. - 2me Partie | Diamant | Par M. E.Boutan | Ingenieur au Corps des Mines | Paris | Vve Ch. Dunod, Éditeur | Libraire Des Corps Nationaux Des Ponts Et Chaussées, Des Chemins De Fer, | Des Mines Et Des Télégraphes | 49, Quai des Augustins, 49 | [rule] | 1886 | Droits de traduction et de reproduction réservés

8°: [3], [1 blank], 323, [1 blank]p; front photograv pl bound-in; 16 similar pls bound-in; 147 wood engravs(sketches, maps). Orig in print wrap. 23 x 15 cm(9 1/8 x 5 7/8 in). Cropped. USGS Kunz Coll; JSL.

Cont: ser tp; publ data; pl; tp; 9 chs; biblio(p 312-20, 377 entries); tab cont; blank p.

Thoroughly detailed, comprehensive work on the diamond stressing facts of greatest interest to the scientist and technician, and introduced by a short chapter on the history of the diamond. Large chapter on mineralogy & properties of diamond, other chs on occurrences & deposits, an important description of the diamond deposits and mines of India, descriptions of deposits in Borneo and Australia, the origin of the diamond, attempts at synthesis, and final chapters on the cutting of diamond, industrial applications, trade, and some famous gems. The large reference list not only includes works on the diamond but also many others of more general gemological interest; entries not free of errors & misspellings. Plates mostly show early views of diamond mines & mining in South Africa. On the whole, a valuable & useful compilation.

838. -----1886, separate.

Le | Diamant | Par | M. E.Boutan | Ingénieur au Corps des Mines | [rule] | (Extrait de l'Encyclopédie chimique de M.Fremy) | [rule] | Paris | Vve Ch.Dunod, Éditeur |... [4 lines] ... | 1886 | Tous droits réservés

8°: [3], [1 blank], 323, [1 blank]p. + [8]p. book catalog; identical save for title & advert; probably issued in printed wrap.

839. -----1889

Sur L'État Actuel | Des | Mines De Diamant Du Cap | Par | E.Boutan | Ingénieur Au Corps Des Mines | [rule] | (Extrait du Génie Civil, 26 janvier 1889.) | [rule] | Paris | Publications

Du Journal Le Génie Civil | 6, Rue De La Chaussée-D'Antin, 6 | 1889

Centersewn: 27, [1 blank]p; 3 figs. Tan printed wrap, title on cover; adverts back cover. 24 x 15.8 cm(9 1/2 x 6 1/4 in). Cut. JSL.

Current status of diamond mines in Griqualand West; brief remarks on geology & structures in pipe deposits, claim consolidation, development of systematic underground mining, production & statistical tabs; general remarks on future prospects in terms of finance & production.

840. -----1889, Engl transl of above.

On | The Present State | of The | Cape Diamond Mines. | By | E.Boutan | Ingenieur Au Corps Des Mines | (Of the French National Corps of Mining Engineers) | Paris. | [rule] | (Extract from the "Genie Civil," 26th January, 1889.) | [rule] | 1889.

8°: 28 p; 5 figs(plans, profiles); tan wrap, title on cover. 23.7 x 15.1 cm(9 3/8 x 6 in). Cropped. USGS Kunz Coll, GS 34-758.

BOUTAN, LOUIS-MARIE-AUGUSTE(1859-)

Fr naturalist, spec marine biol; conducted several important exped to South Seas, Red Sea, SE Asia, etc; worked in lab of Lacaze-Duthiers; prof sci Bordeaux; prof fac sci (zool) Algeria; *Dict Biogr Fr* 7, p 35-6.

841. -----1921

Étude Sur Les Perles Fines | et, en particulier, | Sur les nouvelles perles complètes | De Culture Japonaise | Par | Louis Boutan | Professeur à la Faculté des Sciences de Bordeaux | Directeur du Laboratoire de biologie à la Société scientifique d'Arcachon | [rule] | 1921 | (Extrait du Bulletin | de la Station biologique d'Arcachon).

8°: blank f supplied + 117, [1 blank], [1], [2 blank]p + [2] glossy f (explan & Plate 1) + [1 blank]f; 20 fig. Heavy tan wrap, title on cover. 24.4 x 15.a cm(9 1/8 x 6 1/4 in). USGS Kunz Coll, GS 34-534.

Cont: blank f; 1/2tp; tp; introd; 10 chs; conclusions; biblio (p 115-7, 43 entries); blank p; tab cont; 3 blank p; explan of pl; blank p; pl; 3 blank p.

On jewel-quality pearls: surveys available literature, discusses composition & structure of pearls & nacre; categories and nomenclature of pearls, esp as used in Ceylon but also elsewhere; artificial vs false pearls; physical properties, surface features, pearls of the edible oyster, cultured half-pearls, the Japanese culture pearl. Very detailed, comprehensive, authoritative.

842. -----1923

Annales | Des | Sciences Naturelles | Séries | Botanique Et Zoologie | [rule] | Extrait | Nouvelle Étude | Sur Les Perles Naturelles | Et Sur Les Perles De Culture | Par | Louis Boutan | [rule] | Ann. des Sc. Nat. Zool. VI. 1923 [title on white paper label pasted to wrap cover within double-rule box] | Paris | Masson Et Cie Editeurs | Libraires De L'Académie De Médecine | 129, Boulevard Saint-Germain (VIe) | [rule]

8°: 94 p; 15 fig. Pale green wrap, title in box on cover label; adverts. 25.3 x 16.3 cm(10 x 6 3/8 in). Uncut. USGS Kunz Coll.

Cont: introd; 6 chs; blank p; biblio(p 93-4, 42 entries).

Historical review of the origin of pearls, their composition, structure; Japanese culture pearl; origin & mode of formation of nacre; role of the epithelium in nacre formation; progress in pearl culture.

843. -----1925

Louis Boutan | Professeur De Zoologie A La Faculté Des Sciences D'Alger | Directeur Du Labratoire De Biologie Et d'Acquiculture Du Gouvernement Général | Inspecteur Technique Des Pêches En Algérie | [rule] | La Perle | Étude Générale De La Perles | Histoire De La Méléagrine Et Des Mollusques | Producteurs De Perles | [rect photo Japanese woman pearl-diver] | Figure 1, - Fille De La Mer (Plongeuse Japonaise). | Paris | Librairie Octave Doin | Gaston Doin, Éditeur | 8, Place De L'Odéon, 8 | [rule] | 1925.

8°: [2]f + 421, [1], [2 blank]p; 167 fig(sketches, photos). Pale tan cross-ribbed heavy paper wrap, edges fold inward; orn blue & dk blue frame on cover; similar ruling in circle enclosing orn lett + dk blue lett; similar spine; dk blue logo back cover. 25.2 x 16.5 cm(10 x 6 1/2 in). Uncut. Net: 50 fr. Uncut. JSL.

Cont: 1/2tp; other author works; tp; publ data; introd; 35 chs; ill list; tab cont; blank p; publ data; blank p.

One of the most important modern scientific monographs on the pearl. The first part of 10 chs is general, taking up pearl in antiquity, pearl characteristics & chemical/physical properties, valuation, pearls in jewelry(particularly as worn by famous persons), distinguishing real & culture pearls, and pearl classification. The second part of 7 chs deals mainly with the *Meleagrina* and contains detailed anatomical studies of the mollusks and description of the nacre-producing organs. The last 3 chs of this part describe fisheries of Japan, Americas, Madagascar, Ceylon, Tahiti & New Caledonia. The third part of 5 chs considers pearl parasites with a ch on irregularities of growth commonly noted among the species of India-Ceylon waters. The fourth part of 5 chs describes pearls of the edible oyster, pinna, mussel, abalone, and freshwater species. The fifth part of 3 chs studies pearl and nacre formation, while the sixth part, 5 chs, describes pearl culture, with most space devoted to Japanese methods. The tenor of the work reflects the author's scientific background and it therefore emphasizes biological & ecological factors. The value of the content both to the scientist and gemologist has not diminished and this work remains rewarding reading.

844. BOVARINI, LEANDRO

Delle Gemme, | Discorso | Del Signor Leandro Bovarini, | Il Furioso, Academico Insensato, | Fatto da lui in publica Academia de gli Insensati il di 25. | d'Agosto. 1596. | Nel Reggimento del molto Illustre, & Reverendo Signor | Cesare Crispolti. | All' Illustrissimo Signor | Carlo Pio, Principe | di detta Academia. | [square woodcut vignette, baroque frame enclosing rampant bull, with banner "Nostri Medicina Fvroris."] | In Pervgia, Per Vincentio Colombara. 1603 | [rule] | Con Licenza De Svperiori.

8°: 54, [2 blank]p; A-C^{8}, D^{4}. 14.7 x 9.7 cm(5 3/4 x 3 7/8 in). Cropped. Large woodcut orn with motto, tp verso; large woodcut with coat-of-arms p 51; large woodcut logo, p 54(colophon); ch orn; orn inits. R Hauck Coll.

Cont: tp; woodcut; commend ltr signed by Giuliano

Castagnacci; 3 other ltrs; text; woodcut; colophon & woodcut; blank f.

General discourse on gemstones, citing ancient & contemporary authorities and emphasizing role of many gemstones in culture, especially where used in medicine or to confer protection, and citing other curious lorical aspects. There are brief sections on properties, descriptions of gemstones, and with excerpts from Dante and statements on Biblical gemstones. Authorities are cited in the text. The text printed in italics, with emphasized words in "normal" print. Very rare.

845. BOVENKERK, H P Some observations on the morphology and physical characteristics of synthetic diamond. *Amer Min*, 46, 7/8, 1961, p 952- 63, 10 fig(photos). JSL. General Electric crystals described.

846. BOVET, ARMAND DE Note sur une exploitation de diamants (près de Diamantina) (Province de Minas Geraës, Brésil). *Ann des Mines*, Paris, 8 ser, Mémoires, vol 5, 1884, p 465-506, 7 fig, Plate 16(fold). Also issued sep by Dunod Edit, Paris, 1884, 44 p. Diamond alluvials, upper Jequintinhonha River & tributaries, Minas Gerais, Brazil: geography, associated minerals & local names given to same, type deposits, principal workings, methods of mining, etc. Plate shows sketch map of the region ill as a cross-section of a working to show mining arrangement. Iglesias & Meneghezzi 1959, p 51.

847. BOWER, A P

1885. | [wavy rule] | A Few Words | On | Carbon | As A | Turning Tool | For | Hardened Steel, Stones, | And Other Hard Substances, | The Carbon Being Either | The Diamond (Gem), | Bort (The Impure Diamond), | Or | Carbonado (Amorphous), | With Numerous References To Expired Patents. | [wavy rule] | By | An Amateur. | Wavy rule] | For Private Circulation Only. [All enclosed in orn frame; London: Evison and Bridge, Printers; dedic signed "A.P.Bower"]

8°: edgestapled: [5], [1 blank], 33, [1 blank]p. Pale gray wrap; title in orn frame on cover. 21.2 x 14.2 cm(8 3/8 x 5 5/8 in). Cut. USGS Kunz Coll, GS 34-665.

Cont: tp; publ data; dedic; pref; text; blank p.

Defines the forms of diamond as stated in title, their uses, then quotes from patents and various articles written about diamond, and thus putting together a fairly comprehensive view of current knowledge on industrial diamond, particularly as applied to cutting and abrasive operations. Sources mentioned; very scarce.

848. BOWERBANK, J S On the structure of the shell of molluscous and conchiferous animals. *Trans Microscopical Soc London*, 1, 1884, p 123- 54. Not seen.

849. BOWLER AND BURDICK COMPANY, THE
Issued a series of promotional pamphlets on gemstones from their office in Cleveland, Ohio, 1923-4, but written by Justin Wood, see WOOD, JUSTIN.

BOWLES, OLIVER (1877-1958)
B Ontario, Can; educ Canada, emigrated to US 1908; naturalized 1914; PhD G Wash U 1922; ent service US BuMines 1914, rising to Chief, Non-Metal Econ Div 1937; ret 1947. Obit *Amer Min* 56, 1971, p 670.

850. -----1918

Department Of The Interior |...| United States Geological Survey | ...| Bulletin 663 | The | Structural And Ornamental Stones | Of Minnesota | by | Oliver Bowles | [rule] |...| Washington | Government Printing Office | 1918

8°: 225, [3 blank]p; 21 pls(5 fold maps, section; 3 color,others b&w photos); 27 fig. Pale gray,print wrap. 23.1 x 14.8 cm(9 1/8 x 5 7/8 in). Cut. JSL.

Cont: tp; tab cont; ill list; text; list of bldngs, etc; list of quarry operators; list of stone-finishing works; index; 3 blank p.

History, rock minerals, rocks, geology, technology of quarrying, Minnesota stones and their deposits & quarries; lists. Some of the granites are attractive and have been used in larger lapidary projects.

851. -----1958 Stone cutting and polishing. *U S Bureau of Mines Information Circular* 7863, Washington, DC, 1958, centerstapled: [2], ii, 26, [2 blank]p; 12 fig. Print wrap. 26.7 x 20.3 cm(10 1/2 x 8 in). Cut. JSL. Very brief summary of steps in cutting & polishing architectural & memorial stones, also gemstones, and with notes on equipment, machinery, abrasives, polishing agents; biblio of 22 entries for gemstone work.

852. BOWMAN, H L On an occurrence of minerals at Haddam Neck. Min Mag, London, 13, 1902, p 97-121, figs, Pl 4; also *Zs Krist*, Leipzig, 36, 1902, p 98-119, figs, Pl 3. JSL. Granitic cavity species in Gillette Quarry pegmatite, Haddam Neck, Connecticut: gem quality tourmaline, apatite, feldspars, beryl, quartz, fluorite, microlite; specimens provided by Ernest Schernikow of New York City. Considerable detail on the colored tourmalines and a table given of dichroic colors for ten examples.

BOYD, F R, see MEYER, H O A, 1972

853. BOYD, WARREN F & WIGHT, WILLOW
Gemstones of Canada. *J Gemm*, 18, 6, 1983, p 544-62, 6 index maps, 53 ref.

BOYER, JULES-MARIE-JACQUES(1869-)
Fr scientific & popular writer of Paris; Pogg 4, 170.

854. -----1909

La Synthèse | Des | Pierres Précieuses | Par | Jacques Boyer. | [logo] | Paris, | Gauthier-Villars, Imprimeur-Libraire | Du Bureau Des Longitudes, De L'École Polytechnique, | Quai des Grands-Augustins, 55 | [rule] | 1909.

8°: 30, [2]p; 6 fig, 6 glossy photo pls bound-in. Pale orange-brown wrap, title on cover. 22 x 13.3 cm(8 5/8 x 5 1/4 in). Cut. BM(NH).

Cont: blank lining f + 1/2tp; publ address; tp; pref; text in 3 parts; biblio(p 29-30, 18 entries); tab cont; publ address + blank f.

Part one on recent syntheses of ruby & sapphire; part two deals with syntheses of quartz, opal, emerald; last part on diamond synthesis. Fine photo pls.

855. -----1910, 1st Ger edit

Die synthetische Edelsteine | Ihre Geschichte, Herstellung und Eigenschaften | Nach Jacques Boyer: La synthèse des

Pierres précieuses | Autorisierte deutsche Ausgabe | bearbeitet und ergänzt von | [to left:] Prof. Dr. Hermann Grossmann | Privatdozent | an der Universität Berlin | [in center:] und | [to right:] Dr. Albert Neuburger | Herausgeber | der "Elektrochemischen Zeitschrift" | Berlin | [below:] Mit 12 Abbildungen | [logo] | Berlin W. | Verlag Von M.Krayn | 1910

8°: 57, [1 blank], [2 advert]p; 12 fig. Red cloth, black orn panel with black lett on front cover; black lett spine. Gray, flecked endp. 24 x 17.7 cm(9 1/2 x 7 in). Cut.

See commentary below.

856. -----1918, 2nd Ger edit

Die synthetischen Edelsteine | ... | Mit 12 Abbildungen | Zweite vermehrte Auflage | [logo] | Berlin W. | Verlag Von M.Krayn | 1918

8°: 72 p; 12 fig. Pale orange wrap, title on cover. 25.5 x 17.7 cm(10 x 7 in). Uncut. JSL.

Cont: tp; publ data; tab cont; fwd; fwd to this edit; 6 part text; biblio(p 71-2, 42 entries).

Boyer's original publication on gem materials synthesis precedes Michel's *Die künstlichen Edelsteine*, 1914, which see, although the latter is far more thorough. The first German edition rewrote Boyer's work into more easily understandable prose, included more historical data, gave fuller accounts of contemporary work in Germany, and otherwise substantially enlarged and improved Boyer's edition. The present edition further enlarges the work. In general, major remarks are confined to the synthesis of corundum but also include comments on synthetic quartz, opal, emerald, and diamond, the German editors believing that diamond was actually made by Moissan. Amplifying remarks in part four discuss color in natural gemstones, distinctions between synthetic and natural gemstones, properties of synthetic diamond(!) and including their combustion, and prices of synthetic stones. Other parts treat impact of synthetics in industry and controversy over nomenclature and possible deceptive sales practises, and rather out of place, the cultured pearl.

BOYLE, FREDERICK(1841-)

B Wolstanton, Staffs, Engl; educ Cheltenham Coll & Brasenose, Oxf; to bar of Inner Temple 1866; widely traveled, newspaper corresp in several European and African wars; prolific writer; Allibone, *Suppl*, p 192, lists 14 works.

857. ----- 1873

To The Cape For | Diamonds | A Story Of | Digging Experiences In South Africa. | With | Comments And Criticisms, Political, Social, And | Miscellaneous, Upon The Present State And Future | Prospects Of The Diamond Fields. | By | Frederick Boyle, | Author Of "Adventures Among The Dyaks," "A Ride Across A Continent," | "Camp Notes," Etc. Etc. | London: | Chapman And Hall, 193, Piccadilly. | 1873.

8°: xix, [1 blank], 415, [1 blank]p; fold, part-col map of S Africa tip-in facing p[1]. Green cloth, ornate blind floral dec on covers; gold lett, orns, rules on spine. Yellow endp. 19.9 x 13.3 cm(7 7/8 x 5 1/4 in). Uncut. JSL.

Cont: 1/2tp; tp; publ data; dedic; pref; tab cont; 26 chs; 2 suppls; 4 appends; blank p.

Boyle spent 5 months in S Africa in the earliest diamond mining period, Nov 1871 to Mar 1872; if not discussed in detail, diamonds are mentioned in every ch with Ch 3, p 29-43, being most interesting because it discusses the political moves which eventually led to the annexation of the diamond-bearing lands of Griqualand and other native or Boer dominions to the British Cape Colony. In the moral issues involved, Boyle decidedly favored British actions. Ch 5, p 78-83, describes alluvial diggings along Vaal River near Pniel; Ch 6, p 84-105, again takes up political questions with some remarks on the history of the diamond in South Africa prior to its modern discovery, and minutely describes how local governments were formed by miners and their laws enforced. Ch 7 and 8 vividly portray mining and associated activities at the pipe diggings of Dutoitspan, Bultfontein and Alexandersfontein, although at the time, Boyle, along with others, did not suspect that "pan" deposits were more than mere surface accumulations, in fact, as pointed out by Mendelssohn, Boyle predicted such diggings would be exhausted by the end of 1872. Other chs take up aspects of life and work in the diggings, including methods of mining, social activities, law enforcement, diamond selling, cost of living, housing, exceptional diamond finds, unusual crystals, new "rushes" to other fields,etc.

The first supplement, p 351-64, entitled "Some peculiarities of the diamond as found in South Africa," is one of the earliest published systematic descriptions of diamond crystals from Africa, and treats not only the nature and properties of alluvial and pipe crystals but also compares them to Brazilian and Indian diamonds. The second supplement, p 365-77, discusses the future of the industry and gives Boyle's reasons for some of his predictions. It is remarkable that even at this early stage of diamond mining, Boyle clearly visualized the chaos that would develop as the pipe diggings sank to lower levels and predicted that large-scale mining would only be possible if the claims were consolidated, a prediction that came true. Appendices contain proclamations by the British Governor of the Cape of Cood Hope Colony establishing British authority over the fields, regulating mining, and establishing taxation, among other acts. Also found here are the Orange Free State ordinances establishing civil administration and rules & regulations governing the Dutoitspan diggings as well as a detailed account of the second "New Rush" riots as taken from the *Diamond News*, Jul 20, 1872. The date for this work is given as 1875 by Mendelssohn but this must be a misprint because Theal, p 42, and Allibone, *Suppl*, p 192, give 1873. I have seen a reissue(?) of same date, but without sign of a folding map having been present, and bound in green cloth, title in gold on front cover in a box of black rules; the spine, in addition to gold lettering & rules, bears a 6-point star and small ornament; dk gray endp; text identical.

858. -----1876

The Savage Life | A Second Series or "Camp Notes." | By | Frederick Boyle, | Author Of "Camp Notes," "A Ride Across A Continent," Adventures In Borneo." | London: | Chapman And Hall, 193, Piccadilly, W. | 1876. | [All Rights Reserved.]

8°: viii, 332 p. Brownish-red, or, red cloth, ornate black frame on covers; gold lett & rules spine. 22 x 14.3 cm(8 5/8 x 5 5/8 in). Red cloth version with blind frame on covers, yellow endp. 8 1/2 x 5 1/2 in. Uncut. JSL.

Cont: 1/2tp; tp; publ data; dedic; tab cont; 25 chs.

A series of adventure tales in such widely separated places as Borneo, Africa, and Central America, however, 4 chs describe

adventures in the S African diamond fields, while a fifth ch "A Ring Of Opals," describes hunting this gemstone in Central America, which makes this one of the earliest accounts of gem opal in that region. Typically it is all highly interesting and even exciting but very little actual information on gemstones is given. Theal, p 42.

859. -----1882, new edit

Savage Life |... | London: Chatto & Windus. 12°, 299 p, not seen.

Mendelssohn: "several of the chapters are illustrative of the early days on the diamond fields, 1871-2, and "My Adventures at Pniel," and "The Price of my Diamonds," bring back vividly the names of the pioneers and their haunts, and the exciting life of the diggers."

860. -----1882

Legends Of My Bungalow | By | Frederick Boyle, | Author Of "Camp Notes," "The Savage Life," &c. | With A Frontispiece. | London: Chapman And Hall, Limited. | 1882.

8°: [3], [1 blank], 360 p; tip-in front pl on which is mounted an actual photo print of the author in his den. Brown cloth, black orn bands at top & bottom of cover with title in gold; same on spine; back cover plain save for black logo. Dk blue-gray endp, dull finish. 19.6 x 13.4 cm(7 5/8 x 5 1/4 in). Te uncut; fe untrimmed. JSL.

Cont: pl; tp; print data; tab cont; 14 "legends" plus 4 other anecdotes.

Legend Twelfth, p 211-33, on a character called "Swelly Dave," who lived in the S African diamond fields, and on some of his adventures; chiefly valuable for local color typical of early diamond days in the Bultfontein area. Mendelssohn: "the third story, entitled "Some Skins," describes incidents experienced during the author's visit to "the Veld lands between Cape Town and Pniel," and another tale gives some particulars of the diamond fields in the early days."

861. -----1884 On the Borderland. London: Chapman and Hall, Limited, 1884, 8°: 416 p.; not seen. Mendelssohn: "most of the stories deal with life in India and the East, but two of them... "A Kaffir Toad," and "A Bundle of Photographs," afford pictures of the life of South African river diamond diggings, together with some scenes of Kimberley, Dutoitspan, and Bultfontein, *circa* 1870-1871."

BOYLE, ROBERT (1627-1691)

B Munster, Ireland; Eton Coll ca 1635-8, also priv tutored 1638- 44; hon D Phys Oxford 1665; active mbr from beginning Roy Soc London; estabi priv lab at Oxford; a dir E India Co; important donor charities & religious orgs; moved to London 1668, remaining to his death in 1691; formulated "Boyle's Law," and made very important contributions to physics & chem. Lit rich in biogrs, see DNB, among which one of the best is Thomas Birch's *The Life of the Honourable Robert Boyle*, London, 1744; others include F Masson *Robert Boyle, A Biography*, 1914; L T More, *The Life and Works*... 1944; R Pilkington *Robert Boyle, Father of Chemistry,* 1955, and R E W. Maddison *The Life*... 1969. The authoritative, complete bibliography of Boyle is J F Fulton's *A Bibliography*..., Oxford, 1932, 2nd edit, 1961.

862. -----1664

Experiments | And | Considerations | Touching | Colours. | First occasionally Written, among some other | Essays, to a Friend; and now suffer'd to | come abroad as | The | Beginning | Of An | Experimental History | Of | Colours. | [rule] | By the Honourable Robert Boyle, | Fellow of the Royal Society. | [rule] | Non fingendum, aut excogitandum, sed invenien- | dum, quid Natura faciat, aut ferat. Bacon. | [rule] | London, | Printed for Henry Harrington at the | Anchor in the Lower Walk of the New- | Exchange. MDCLXIV. [title in red & black; 1664]

8°: [40], 424 p; A, a^8, b^4, B-Dd^8, Ee^4.

Cont: tp; pref; ltr from publ to reader; tab cont; errata; text; subtp; p 391-423 text.

Subtitle:

A Short | Account | Of Some | Observations | Made by Mr. Boyle | About a Diamond that Shines in the Dark. | First enclosed in a Letter written to | a Friend, | And now together with it annexed to the Fore- | going Treatise, upon the score of the | Affinity betwixt | Light and Colours. | [rule] | [orn] | [rule] | London, | Printed for Henry Herringman. 1664. [Fold engrav pl with lett "Explication" beneath, facing p 193.]

Not seen: above from Fulton, 2nd edit, p 43-4, no 57; De Golyer Coll, Okla U.

In this often verbose and rambling essay on colors & light is buried Boyle's account of experimentation on a certain diamond owned by a Mr Clayton, which gem could be excited by rubbing and warmth to glow noticeably in the dark, apparently the first recorded incident of diamond fluorescence/phosphorescence. Intrigued by the display, Boyle further experimented with natural and artificial phosphors, notably rotting wood, fish, and meat, among other natural materials that were known to spontaneously emit light, and the massive barite or "Bologna stone," of Italy, as well as various artificial compounds, among them, a phosphorescent concentrate of urine. Boyle examined many rough diamonds, among them some that he called "six-cornered," presumably octahedra, noting in passing that there was no truth to the superstition that diamond was unbreakable unless first soaked in goat's blood, various inclusions in diamond, determined the SG as ca 2.96, remarked on other properties as "grain" or cleavage (which property was well known to London diamond cutters), magnetism from inclusions, one stone being found that was drawn to a powerful lodestone, and the ability of Clayton's diamond to emit light. In addition to these largely scientific observations, Boyle also dwelt on curious lore as the story about turquoise changing its spots or hues in reflection of the health of the wearer, the strange behavior of the oculis mundi(hydrophane opal) when immersed in water, and other instances of supposed affinities between stones and their wearers. Clayton's diamond was a table-cut gem of about 1/3-in long, or ca 10 mm, and could be made to glow by brisk rubbing with various cloths and other materials as well as by heating. Other gemstones said to glow in the dark are also discussed, eg, carbuncle and ruby, on the basis of traveler's tales and one account from Cellini. While the section on diamond is not large, it is important for providing an insight on the status of this gem and the cutting industry in London at the time. Boyle's remarks are frequently cited by E N Harvey, *A History of Luminescence*, 1957. While this first edition of Boyle's treatise on color is given in some detail, Thorndike, in a chapter entirely devoted to Boyle in his *History of Magic*, etc, 8, p 170-201, points out that Boyle's works were published and distributed in such large numbers that "they are perpetually offered for sale," and preceded this remark by saying that "no items are more frequently encountered in second-hand sales catalogues." It would do little good to repeat all of the later editions/issues

except to note that these will be found, complete, in Fulton, ranging from 1665, Fulton no 59 to 1680, no 63A, not to mention reappearance in several collected works of Boyle described below.

863. -----1672

An | Essay | About The | Origine & Virtues | Of | Gems. | Wherein are Propos'd and Historical- | ly Illustrated some Conjectures about the | Consistence of the Matter of Precious | Stones, and the Subjects wherein their | Chiefest Virtues reside. | [rule] | By the Honourable Robert Boyle, Esq; | Fellow of the Royal Society. | [rule] | London, | Printed by William Godbid, and are to | be sold by Moses Pitt at the White | Hart in Little Britain, 1672. [title in double-rule frame]

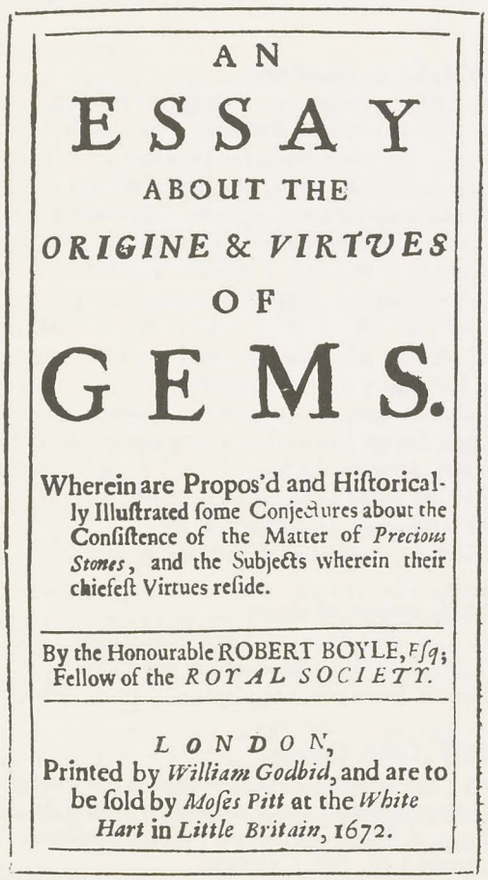
8°: [16], 185 [recte, 184]p; A-M^{8}, N^{4}; pag errors betw p 97-108, but correct to p 180, but p 181 misnumb "182," with error carried to end of text. 16 x 10.5 cm(6 1/4 x 4 1/8 in). Cropped. See Fulton 96 and Hagner & White. USGS Kunz Coll, GS 34-320; JSL; Ward & Carozzi 289; DeGolyer Coll, U Okla; Agassiz, I, 397.

Cont: tp; publ pref; pref; errata; blank p; text.

This celebrated treatise, justly called by Fulton, p 67, "the beginning of the modern development in knowledge of crystal structure," really has little to do with gemstones except as they happened to conveniently provide crystals for Boyle's inquiries into the solid state of matter. There are two fundamental hypotheses posed in this essay, p 5, the first being "that many of these Gems and Medical Stones, either fluid bodies, as the Transparent ones; or in part made up of such substances as were once fluid," and second, "that many of the real Virtues of such stones may be probably deriv'd from the *mixture* of *Metalline* and other Mineral substances, which (though unsuspectedly,) are usually incorporated with them." However, an even more fundamental concept underlies both hypotheses which Boyle clearly demonstrates he was aware of even though he does not say so explicitly, that is, that crystals grow from solution from very minute particles which attach themselves to the growing crystal in such a manner that they add bulk and create characteristic external planes, vide p 7-3. Boyle's ideas on the properties of crystals and ideas of his contemporaries are ably discussed by J C Burke, *Origins of the Science of Crystals*, 1966, p 30 ff. See also the preliminary remarks of A F Hagner & G W White in their facsimile edition of this work, 1972, p xiv ff. An earlier but still valuable commentary is that of Franz von Kobell, *Geschichte der Mineralogie*, 1864, p 12-6, but given on the Hamburg edition of *Origine*, 1673(see below).

One of the principal reasons for writing this work, according to Boyle, was to determine if the use of pulverized gemstones, still recommended as curative ingredients in medicines, had any basis in chemical fact. He admits that water-soluble ingredients in certain stones conceivably could be leached out while in the digestive tract and thus afford some curative effect, but, on the whole, Boyle scoffs at the numerous medicinal virtues assigned to gemstones.

In other places in the text are to be found shrewd observations about the nature of minerals, including the fact that the best-formed crystals grow in cavities, but others grown in confined spaces are "molded," that cleavage is a definite property of certain species, as diamond, whose cleavage he observed being taken advantage in diamond-cutting shops in London, that color in gemstones was "adventitious" for most as


AN

ESSAY

ABOUT THE

ORIGINE & VIRTUES

OF

GEMS.

Wherein are Propos'd and Hiſtorically Illuſtrated ſome Conjectures about the Conſiſtence of the Matter of *Precious Stones*, and the Subjects wherein their chiefeſt Virtues reſide.

By the Honourable ROBERT BOYLE, *Eſq*; Fellow of the *ROYAL SOCIETY.*

LONDON,
Printed by *William Godbid*, and are to be ſold by *Moſes Pitt* at the *White Hart* in *Little Britain*, 1672.

863. Robert Boyle's celebrated work on crystals and their properties in its first edition

shown by heat-treating experiments which drove off such colorations, that inclusions in crystals may take the form of solids, fluids, or negative crystals, and are caused by envelopement of the inclusion by the host crystal as it grew, that rock crystal could not be any form of supercooled water because its specific gravity of 2-2/3 x that of water ruled this out, and many other conclusions and remarks which are sure to amaze any reader who assumes that such are modern concepts.

864. -----1673, Latin, London

Exercitatio | De | Origine & Viribus | Gemmarum. | In qua proponuntur & Historicè | Illustrantur Conjecturae quae- | dam circa materiae Gemmarum | Consistentiam, necnon Subjecta, | quibus praecipuae earum vires | inhaerent. | [rule] | Authore | Roberto Boyle, | Nobile Anglo, è Societate Regiâ. | [rule] | Londini, | Typis Guilielmi Godbid, & venales | prostant apud Mosem Pitt, ad in- | signe albi Cervi, in vico vulgò vo- | cato Little Britain. 1673.

12°: [1], 143 [recte 150], [1], [1 blank], [4 advert]p; A^{6}, B-G^{12}, H^{6}. Pag errors: all after p 146, caused by repeat of this number on p [147]. 12.5 x 7.5 cm(5 x 3 in). Cropped. Fulton 97; JSL; USGS Kunz Coll, GS 34-203.

Cont: tp; publ pref; pref; text; addenda; errata; blank p; adverts.

865. -----1673, Latin, Hamburg

Specimen | De | Gemmarum | Origine | & Virtutibus. | In quo proponuntur & historicè illustran- | tur quaedam conject- urae circa con- | sistentiam materiae Lapidum Prae- | tiosorum, & subjecta, in quibus eo- | rum praecipuae virtutes consistunt. | Primum Anglicè conscriptum | Authore | Roberto Boyle, Armig | Societatis Regiae Socio. | Nunc Latinè, interprete C.S. | [woodcut orn] | Hamburgi, | Apud Gothofredum Schultz. | Prostant & Amsterodami, | Apud Joannem Janssonium à Waesberge. | [rule] | M. DC. LXXIII. [title in red & black; 1673]

12°: [20], 206 p;)(^{10} A-H^{12}, I^{6}, K; Fulton 98 assumes that the last f of first signature was removed purposely; my copy also lacks this f. Fully-engrav 1/2tp, showing a banner with short title and below two European merchants bargaining over a chest of jewels with two Africans. 12.5 x 7.5 cm(5 x 3 in). Cropped. Fulton 98; USGS Kunz Coll, GS 34-711 rev; JSL; Ward & Carozzi 290; Dewalque 71. Agassiz, I, 397.

Cont: 1/2tp; tp; pref; publ pref; blank p; text.

866. -----1673, variant of above

Specimen |... | Hamburgi, | Apud Gothofredum Schultz. | [rule] | M. DC. LXXIII. [title in red & black; 1673]

Omits Jansson from title;else identical. Not in Fulton.

867. -----1677, Latin, Geneva

Specimen | De | Gemmarvm | Origine & Virtvtibvs. |... [&c.] Ab Honoratissimo | Roberto Boyle | Nobili Anglo, è Societate Regia. | [logo] | Genevae, | Apud Samvelem De Tovrnes. | [rule] | M. DC. LXXXVII.

4°: n^{2+1}, A-G^{4}, H^{1}; [3]f, 58 p. Not seen; from Fulton 99.

Cont: tp; pref; publ pref; text.

868. -----1680, Latin, Geneva

Specimen | De | Gemmarum | Origine & Virtvtibvs.| In Qvo | Proponuntur & historicè illustrantur quaedam Conject- urae circa | Consistentiam materiae Lapidum Pretiosorum, & subjecta, in | quibus eorum praecipuae virtutes consistunt. | Ab Honoratissimo | Roberto Boyle | Nobili Anglo è Societate Regia. | [woodcut logo] | Coloniae Allobrogvm, | Apud Samvelem De Tovrnes. | [rule] | M. DC. LXXX. [Geneva; 1680]

4°: [6], 58 p; n^{3} A-G^{4}, H. Woodcut init, orns. 21.5 x 16.8 cm (8 1/2 x 6 5/8 in). Cropped. USGS Kunz Coll, GS 34-204. Fulton 100.

Cont: tp; pref; text.

869.-----1680, another Latin Geneva issue; Fulton 100A; not seen

870. -----1673, included in another work.

Essays | Of the | [in column to left:] Strange Subtility | Determinate Nature | Great Efficacy | [last 3 lines in col encl in curved bracket pointing to, on right:] | of Effluviums | To which are annext | New Experiments to make Fire | and Flame Ponderable. | Together with | A Discovery of the Perviousness of Glass. | Also | An Essay, about the Origine | and Virtue of Gems. | By the Honourable Robert Boyle, | Fellow of the Royal Society. | To which is added | The Prodromus to a Dissertation | concerning Solids naturally contained with- | in Solids Giving an Account of the Earth | and its Productions. | By Nicholas Steno. Englished by H.O. | London, Printed by W.G. for M. Pitt, at | the Angel near the little North Door | of St Paul's Church. 1673.

Not seen; taken from J G Winter's *The Prodromus of Nicolaus Steno's Dissertation*, New York, 1916, p 198. Winter also comments on Boyle's work, esp the section "The Interpreter to the Reader" (p 199), in which the observations of Boyle are compared to those of Steno.

871. -----1677, Geneva, in collected work

Roberti | Boyle, | Nobilissimi Angli, | Et | Societatis Regiae | Dignissimi Scii, | Opera Varia, | Quorum posthac exstat Catalogus. | Cum Indicibvs necessariis & multis Figvris aeneis. | [logo] | Genevae, | Apud Samvelem De Tovrnes. | [rule] | M. DC. LXXXVII. | Cum Svperiorvm Permissu. [title in red & black; 1677]

Contains "Experimenta et Considerationes de Coloribus" and "Specimen de Gemmarum Origine & Virtutibus." Not seen; Fulton 246, etc.

872. -----1677, same. Coloniae Allobrogum, Fulton 246A. Not seen.

873. -----1680, Geneva, another issue

Roberti | Boyle, |...[as in 1677 edit]... multisque Figvris Aeneis. | [logo] | Genevae, | Apud Samvelem De Tovrnes. | [rule] | M. DC. LXXX. | Cum Privilegio S.Caesarea Maiestatis. [Fulton 247]

874. -----1680, same, Coloniae Allobrogum, not seen; Fulton 247A.

875. -----1687, same as 1680 Geneva but date of 1687; not seen; Fulton 247B.

876. -----1694, as above, date of 1694; not seen; Fulton 247C.

877. -----1696-97, Venice, Latin

Roberti | Boyle, | Nobilissimi Angli, | Et | Societatis Regiae dignissimi Socii, | Opera Omnia, | Nunc primùm in unum Corpus redacta, ac tres in Tomos distributa: | Accuratè recognita, & à mendis repurgata: | Quorum Catalogum Versa Pagina Exhibet. | Cum Indicibus necessariis, multisque Figuris Aeneis. | [engrav logo] | Venetiis, | Sumptibus Jo: Jacobi Hertz. | [rule] | M. DC. XCVI. | Superiorum Permissu, & Privilegio. [title in red & black; 1696]

Contains the following of later date:

Breuis Enarratio | Qvarvndam | Observationum, | Factarum à Nobili | Roberto Boyle, | De | Adamante In Tenebris Lucente: | Primùm Epistolae ad Amicum Scriptae inclusarum, | Nunc autem | Unà cum ipsa, praegresso Tractatui annexarum, ob | eam quae inter Lucem & Colorem intercedit, affinitatem.

Vol 1, 1696, p [1017], 1018-29, with p 1030 containing a postscript on gemstones & certain properties, and "Specimen | De | Gemmarum | Origine & Virtutibus |... [5 lines]... | Roberto Boyle, | Nobili Anglo, | E Societate Regia. Vol 2, 1697, p [229], 230-80.

878. -----1725, Engl abridged, Peter Shaw

The | Philosophical Works | Of the Honourable | Robert Boyle, Esq; | Abridged, methodized, and disposed under the | General Heads | Of |... 6 lines]... | [rule] | In Three Volumes. | [rule] | By Peter Shaw, M.D. | [rule] | London: | Printed for W. and J.Innys, at the West-End of St. Paul's; | and J.Osborn, and T.Longman, in Pater-Noster-Row. | [rule] | M. DCC. XXV.

In last 2 vols, vol no appears in lieu of "In Three Volumes."

4°: [4], xliii, [1 blank], 739, [2 blank]p; pi^2, a-e^4, f^2, B-$Zzzz^4$, $Aaaaa^2$; 1 engrav pls. Vol 2: xx, 726, [2 blank]p; A^2, a-b^4, B-$Zzzz^4$, 19 engrav pl. Vol 3: [4], xv, [1 blank], 756 p; pi^2, a-b^4, B-$Ccccc^4$, $Ddddd^2$; fold engrav pls(p 678). 23 x 17.5 cm(9 x 6 3/4 in). Cropped.

Contains: "Experiments and observations upon colours," vol 2, p 1-105; "The origin and virtues of gems," vol 3, p 99-143; "Observations upon diamonds, etc.," vol 3, p 144-72.

879. -----1744, first complete collected edit, Thomas Birch

The | Works | Of The Honourable | Robert Boyle. | In Five Volumes. | To which is prefixed | The Life of the Author [by Thomas Birch]. | Volume I [-V.]. | [engrav vignette] | London: Printed for A.Miller, opposite Catharine-Street, in the Strand. | MDCCXLIV.

Folio; engrav front portr; 24 engrav pls on 15 f. Not seen: Fulton 240. "Experimental history of colours & observations about a diamond" in vol 2, and "Origin & virtue of gems " in vol 3.

880. -----1772, new edit of above

The | Works | of the Honourable | Robert Boyle. | In Six Volumes. | To which is prefixed | The Life of the Author. | Volume The First[-Sixth]. | A New Edition. | [engrav logo] | London: | Printed for J. and F. Rivington, L.Davis, W.Johnston,... [etc, for 5 lines] ... | MDCCLXXII. Not seen: Fulton 241.

881. -----1972, facsimile of Origine and Virtues of Gems

An Essay About the | Origine and Virtues | of Gems | by | Robert Boyle | (Facsimile of the 1672 Edition) | Introduction by | Arthur F. Hagner | Foreword by | George W. White | Hafner Publishing Company | New York | 1972

"Contributions to the History of Geology Vol.7."

16°: xxvi, [1]p + essay(paged as in original) + [4 blank]p; front portr of Boyle. Pale brown cloth, title on cover & spine. 23.3 x 15.5 cm (9 1/4 x 6 1/8 in). Cut. LC 78-181434. JSL.

Cont: blank p; other vols in ser; ser tp; portr; tp; publ data; fwd; introd; biblio(p xxiii-xxv, 29 entries); gloss; pag errors; essay; 2 blank f.

Hagner gives a brief life of Boyle, followed by remarks on Boyle's ms preparation & writing style, his experimentations, hypotheses, and concept of the structure of matter, and then comments on the Essay. The last is reproduced in actual size. References include other biographical treatments of Boyle, his career, and accomplishments. Rev *G & G*, 14, 3, 1972, p 95-6.

BRACCI, DOMENICO AUGUSTO, or AGOSTINO (1717-1792)

Eminent Ital antiquary & art historian; stud architecture in Florence; Catholic priest; major career as consultant/antiquary in Rome; acquainted with Stosch & Winckelmann. *Diz Biogr Ital*, 13, p 611-12; Zazoff, *Gemmensammler*, 1983, p 122-7; *Biogr Univ*, 5, p 450.

882. -----1784-1786

Memorie | Degli Antichi Incisori | Che Scolpirono | Loro Nomi | In Gemme E Cammei | Con Molti Monumenti Inediti Di Antichità | Statue Bassirilievi Gemme | Opera | Di Domenico Augusto Bracci | Della Società Reale Antiquaria Di Londra. | [double rule] | Volume Primo[Secondo]. | [double rule] | Firenze MDCCLXXXIV. | Per Gaetano Cambiagi Stampatore Granducale | [orn rule] | Con Licenza Dei Superiori. [Florence, 1784]

Except for date, second vol identical tp; each with facing Latin tp:

Commentaria | De Antiquis Scalptoribus | Qui Sua Nomina Inciderunt | In Gemmis Et Cammeis | Cum Pluribus Monumentis Antiquitatis Ineditis | Statuis Anaglyphis Gemmis | Auctore | Dominico Augusto Bracci | Regiae Societatis Antiquariorum Londiniensis. | [double rule] | Volumen Primum [-Secundum]. | [double rule] | Florentiae MDCCLXXXIV. | Apud Caietanum Cambiagi Typographum Regium | [orn rule] | Superiorum Permissu.

First vol with engrav extra tp: Juno, martially attired, betw fluted columns surmounted by a bust & martial implements; quot from Propertius at foot; short title above. Next comes a fully engrav dedic f to Gustav III, King of Sweden, with medal above lett. Parallel Latin/Ital texts.

Vol.I.: 2°, in fours: [1]f + XXXI, 299, [1]p; first text p blank; pi^4 b-d^4, A-Nn^4, Oo^6; engrav pls I.-LIII + Pls T.I-T.XXVII(80 altogether). 43 x 28.5 cm(17 x 11 1/4 in). Cut. Note: engrav tp supplied, also engrav dedic f insert betw tp & pref. LC 14-15860; JSL; Vinet 1638(who enters under Latin title); Goodland p 76.

Cont: engrav tp; blank p; Latin tp; Ital tp; blank p; engrav dedic; blank p; prefs; 2 blank p; texts; approbations & price; pls.

Vol.II: XVII + [1]f + 306, [2]p, the first text p blank; pi^4, b^5, A-Oo^4, Pp^6; engrav dedic pl as before; pls LIV-CXIV + Pls T I-T XIX (for both vols, 160 pls total).

Cont: blank p; Latin tp; Ital tp; 2 blank p; prefs; blank p; engrav dedic; blank p; texts; catalog of misc objects; indexes of gems; index of cited authors(p 286-92, several 100 entries); subj index; errata & price sec vol; gold coins of Florence; pls.

Physically large and elaborate work with numerous excellent engraved plates although their value to scholars is questionable in the view of Furtwängler, *Die Antiken Gemmen*, 1900, 3, p 419-20. In general, each engraved gem is shown much magnified, one per plate, filling a printed space of ca 23.5 x 16.5 cm(9 1/4 x 6 1/8 in). As customary, actual size is also shown. Some supplementary plates show statuary, among other objects of art; these may be larger or smaller than the dimensions noted above. Furtwängler notes that Bracci was the "bitter enemy" of the celebrated antiquary Winckelmann, and in the present work, begun in 1756, "he could pour out his venom against the already long passé Winckelmann." At the same time, Furtwängler remarks that the work is "splendid, but really of little value," because of the inclusion of only a few genuine gems from the Stosch collection and others that were false and still others that could not be attributed to any known artist. Furthermore, "his text, in Latin and Italian, is wide-ranging but spiritless and

uncritical," while insofar as the character of the engravings is concerned, these are considered to be engraved in a "weak, characterless manner, and obviously printed with flaws." Each of the plates is dedicated to the person who subsidized their cost. See Vinet 1638; Goodland notes a copy in which the text is bound in two volumes and the plates in a third.

883. BRACEWELL, SMITH Report on the preliminary geological survey of the Potaro-Ireng district of British Guiana. Georgetown, Demerara, 1927. Combined Court No.21, 60 p, 1 p, 18 text figs; describes alluvial diamond deposits. *Min Abstr* 3, 1928, p 437-8; *Mining Mag*, London, 38, 1928, p 267-76, figs, not seen.

884. -----1930 Report on the Buck Canister-Oranapai section of the Mazaruni diamond field. [With report by H F King] *Geol Survey Brit Guiana* 1930, p 1-18, map; not seen.

885. -----1946 The geology and mineral resources of British Guiana, *Handbk of Nat Resources Brit Guiana*, Georgetown, 1946, sect 4, p 18-40, 3 pls; also in *Bull Imperial Inst*, London, 45, 1947, p 47-69, 7 pls. Includes alluvial diamond deposits; a bort crystal of 97 cts found in Eping R in 1937; not seen. GS 48-188.

886. BRADFORD, ERNLE

Four Centuries Of | European Jewellery | By Ernle Bradford | [logo] | Country Life Limited | 2-10 Tavistock Street Covent Garden | London WC 2 [1953]

8°: 226, [2 blank]p; 108 photos on 24 glossy tip-in & bound-in f, included in pag. Pale red unfinished cloth, orn scrolls surround lett in gold on cover; similar dec & lett spine. Bright green & white dj ; front cover photo; other bks back cover; flap resume. 24.6 x 18.7 cm(9 3/4 x 7 3/8 in). Cut. 42s. JSL.

Cont: 1/2tp with poem & quot; tp; publ data; pref; tab cont; illust list; introd; 16 chs; concl; gloss; biblio(p 219-20, 46 entries); index; blank f.

European jewelry from Italian Renaissance into 20th century, with perceptive comments on materials, styles, influence of events on styles, and wearing of jewelry, plus much other information in the first six chapters comprising the historical survey. The remainder is of more interest to the gemologist treating diamond jewelry, rings, enamels, cameos & intaglios, pastes, marcasite & cut steel jewelry, birthstones, precious metals, the history & properties of gemstones(p 190-95), gem cutting(p 196-200), also pearls, amber, jet, coral. Popular, reprinted several times. Rev *J Gemm*, 4, 4, 1953, p 182.

887. -----1953, New York edit

Four Centuries Of | ... | By Ernle Bradford | [logo] | Philosophical Library | 15 East Fortieth Street | New York 16 [only dj differs]

888. -----1967, reprint

[rule] | Four centuries of | European | Jewellery | [rule] | Ernle Bradford | Spring Books [Feltham, Middlesex, Engl, 1967]

Pag & illust same; bright blue paper over bds, gold lett spine. Dk blue plasticized dj, portr Queen Elizabeth on cover; green necklace back cover; resume, reviews. 24.6 x 18.5 cm(9 3/4 x 7 1/4 in). Cut. £ 2/2-. JSL. First 2 f reset; some loss in photo contrast; reprinted 1970.

BRADLEY, F, see LENZEN, G, 1970.

BRADLEY, JOHN, see O'DONOGHUE, M et al, 1976.

889. BRADLEY, J E S & BRADLEY, OLIVE Observations on the colouring of pink and green zoned tourmaline. *Min Mag*, 30, 220, 1953, p 26-38, 4 figs, 3 tabs. Studied color absorptions & absorption curves provided; heating experiments; new chem analyses tabulated; speculates on role of Mn and Fe in coloration.

890. BRAGG, WILLIAM LAWRENCE(1890-1971) Gemstones. *Proc Roy Inst London*, 37, 1958, p 1-15; *Min Abstr* 14, 2, 1959, p 118-9; not seen.

891. BRANDT, ELFRIEDE

Antike Gemmen | In Deutschen Sammlungen | Band I | Staatliche Münzsammlung | München | Teil I | Griechische Gemmen | von minoischer Zeit bis zum späten Hellenismus | bearbeitet von Elfriede Brandt | Prestel Verlag München [1968]

Series title facing: "Antike Gemmen | In Deutschen Sammlungen | Berlin · Braunschweig · Gottingen · Hamburg | Hannover · Kassel · München"

8°: 183, [1 blank]p; over 600 photos on both sides of 34 bound-in glossy f betw p 108-177("64 Tafeln"), included in pag. Gray cloth, gold lett on black & red spine panel. White dj, gem photo on cover; resume, other publ bks. 28 x 21 cm(11 x 8 1/4 in). Cut. JSL.

Cont: ser 1/2tp; ser tp; tp; publ data; tab cont; introd; fwd; history Munich coin collection by Harald Küthmann, With bibliogr notes; biblio & abbrev(p 13-4, 63 entries); catalog tp; catalog; pls tp; pls; concordance; addenda; localities list; subj index; blank p.

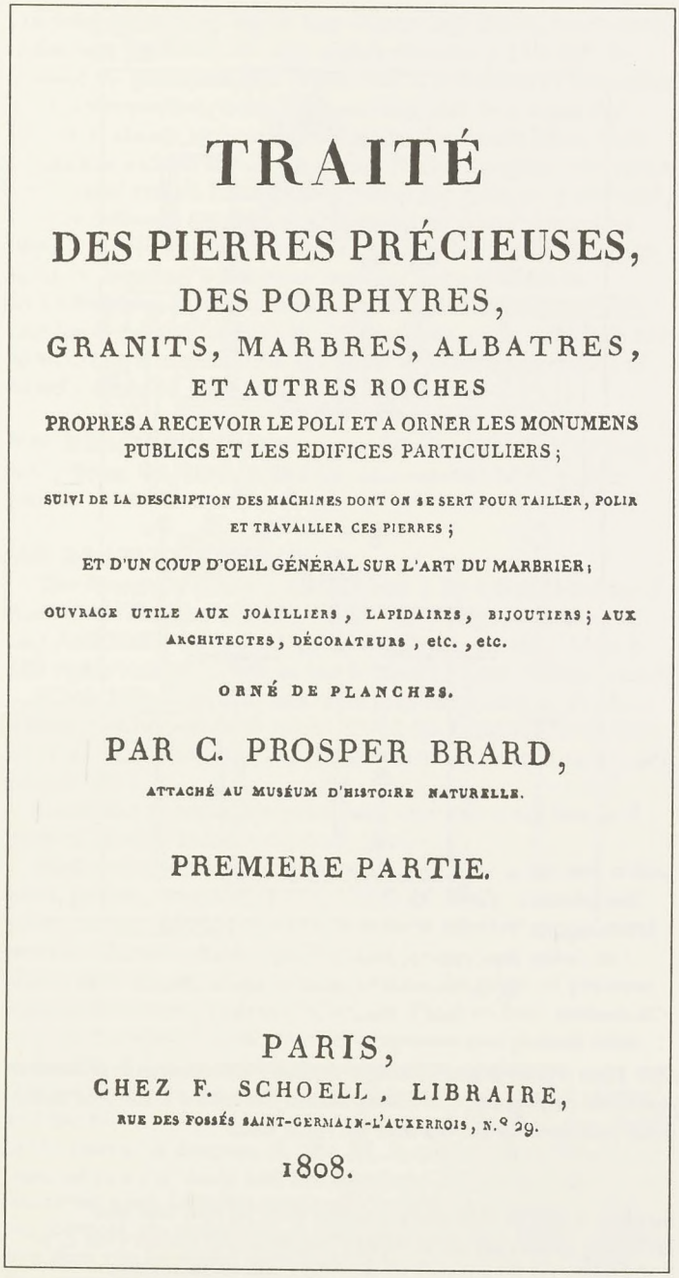
Illustrated catalog of 631 engrav gems & pastes in State Coin Collection, Munich; all identified by material and with subjects, forms, sizes, special features, etc; with refs to previous mentions or publications. Photos are of actual gems, enlarged, with ratios given. Arntzen P 591.

BRANDT, J W, see VAN EEDEN, O R, et al.

892. BRANHAM, ALLAN W (d 1969) The jade beyond. Reminiscences of twenty-five years in the jade fields of Wyoming. *Lap J*, 19, 2, 1965, p 240-2, ill; 3, 358-63; 4, 462-9; 5, 570-3; 6, 674-81; 7, 787-91; 8, 890, 892-4; 9, 1008-13; 10, 1966, p 1168-73; 11, 1234-7; 12, 1322-3; vol 20, 1966, no 1, p 194-7; 2, 346-9; 3, 462-7; 4, 554-7; 5, 612-5. Yang 1136.

BRANHAM, A W & M K, see MACFALL, R P, 1980

893. BRANNER, GEORGE C Geology of America's diamond fields. *Pan-Amer Geol*, 51, 5, 1929, p 339-53; map of Pike Co, Arkansas diamond deposits, with cross-section. Geology, history, explorations in the pipe deposit near Murfreesboro; cites extensively from other reports on size, quality, crystallography, etc of the diamonds.



TRAITÉ

DES PIERRES PRÉCIEUSES,

DES PORPHYRES,

GRANITS, MARBRES, ALBATRES,

ET AUTRES ROCHES

PROPRES A RECEVOIR LE POLI ET A ORNER LES MONUMENS PUBLICS ET LES EDIFICES PARTICULIERS;

SUIVI DE LA DESCRIPTION DES MACHINES DONT ON SE SERT POUR TAILLER, POLIR ET TRAVAILLER CES PIERRES;

ET D'UN COUP D'OEIL GÉNÉRAL SUR L'ART DU MARBRIER;

OUVRAGE UTILE AUX JOAILLIERS, LAPIDAIRES, BIJOUTIERS; AUX ARCHITECTES, DÉCORATEURS, etc., etc.

ORNÉ DE PLANCHES.

PAR C. PROSPER BRARD,

ATTACHÉ AU MUSÉUM D'HISTOIRE NATURELLE.

PREMIERE PARTIE.

PARIS,

CHEZ F. SCHOELL, LIBRAIRE,

RUE DES FOSSÉS SAINT-GERMAIN-L'AUXERROIS, N.° 29.

1808.

897. Brard's large treatise on gemstones and also ornamental stones, with lapidary secrets

894. BRANNER, JOHN CASPER(1850-1922)

The Economic Geology | of the Diamond Bearing Highlands | of the Interior of the State | of Bahia, Brazil | By John C. Branner | Reprinted from the Engineering And Mining Journal | Vol. LXXXVII, pages 981-987, 1031-1033, | May 15 and 22, 1909 [Title from wrap; N.Y. 1909]

Centerstapled: 22, [2 blank]p; 14 photos, 3 drawings, 3 cross-sects, fold sketch map tip-in. Pale orange wrap, cover title. 23 x 15.3 cm(9 1/8 x 6 in). Cut. GS 34-759; JSL.

Geography, geology, formations, deposits, methods of mining, occurrence of other economic minerals.

895. -----1911 The minerals associated with diamonds and carbonados in the State of Bahia, Brazil. *Amer J Sci*, 31, 1911, p 480-90. JSL.

896. BRANSON, OSCAR T & BRANSON, ETHEL

Turquoise | The Gem of the Centuries | by | Oscar T. Branson | Design, Color Coordination and Jewelry Arrangements | by | Ethel Branson | Treasure Chest Publications Inc. P.O.Box 2659, Santa Fe, New Mexico 87501 [1974]

Edgestapled: ii, 62 p.; 97 col photos, some doublep. Col photo wrap, title front cover. 29.8 x 21.8 cm(11 3/4 x 8 5/8 in). Cut. $6.95. JSL. Also in hard cover, "Limited Edition," $12.95, sewn. JSL. Essentially a picture book of high quality color photographs, almost all of turquoise rough & cut, as used in jewelry, and also in objects using shell, coral, etc in conjunction with turquoise. Doublepage photo map of turquoise deposits. All objects described via the captions; there is scarcely any formal text. No references.

BRARD, CYPRIEN PROSPER(1788-1838)

Noted Fr mineralogist,econ geologist, civil engineer; publ several treatises. Pogg I, p 281; F V Jouannet, *Notice historique sur Cyprien Prosper Brard*, 31 p, portr, Bordeaux, 1839.

897. -----1808

Traité | Des Pierres Précieuses, | Des Porphyres, | Granits, Marbres, Albatres, | Et Autres Roches | Propres A Recevoir Le Poli Et A Orner Les Monumens | Publics Et Les Edifices Particuliers; | Suivi De La Description Des Machines Dont On Se Sert Pour Tailler, Polir | Et Travailler Ces Pierres; | Et D'Un Coup D'Oeil Général Sur L'Art Du Marbrier; | Ouvrage Utile Aux Joailliers, Lapidaires, Bijoutiers; Aux | Architectes, Décorateurs, etc., etc. | Orne De Planches. | Par C.Prosper Brard, | Attaché Au Muséum D'Histoire Naturelle. | Premier[Seconde] Partie. | Paris, | Chez F.Schoell, Libraire, | Rue Des Fosses Saint-Germain-L'Auxerrois, N° 29. | 1808.

8°: Vol I: xxvij, [1 blank], 247, [1 blank]p; 5 engrav pls(4 fold) bound-in at end of text. Publ pale pink wrap, title label spine. 21.2 x 14 cm(8 3/8 x 5 1/2 in). Uncut. USGS GS 34-761; JSL; Ward & Carozzi 305; Dewalque 72; Agassiz, I, 408.

Cont: 1/2tp; other work of author; tp; tab cont(both vols); introd; part tp; 2 chs; append of 10 short chs; amulets; tab gemstone properties; lapidary work in 6 chs; gem engraving; blank p; pls.

Vol II: [3], [1 blank]p + p 249-565 + [1 blank]p; 3 engrav pls(1 fold), bound-in at end of text.

Cont: 1/2tp; tp; blank p; part tp; two major parts; marble quarrying & working; tab gemstone SG; tab rock wgts/cubic ft; index; blank p.

A large, detailed work which embraces not only gemstones but also ornamental and monumental kinds, with much on their extraction, working, and polishing. First volume: gemstones, ornamental stones, with discussion of crystallography, mineral properties, detailed descriptions of "hard" and "soft" stones, with diamond receiving most attention; others treated include corundum, chrysoberyl, spinel, topaz, beryl, zircon, garnet, euclase, quartz, the last also given a great deal of space for its treatment of crystalline & cryptocrystalline varieties(p 79-149), and including opal, a large number of trivial jasper varieties, and, briefly,

descriptions of figured stones, natural and false, engraved gems, etc. Among "soft" stones are idocrase, peridot, tourmaline, epidote, kyanite, prehnite, feldspars(including jade which Brard believes to be a kind of compact feldspar), hypersthene, lapis lazuli, lepidolite, natrolite, chiastolite, fluorite, calcite, talc and gypsum. This section is quite remarkable for its treatment of so many uncommon or rare gemstones and is one of the earliest treatises to include many of them. In an appendix to the first volume, Brard also treats halite, jet, hard coal, amber, malachite, turquoise, pyrite, hematite, rhodonite and obsidian although there seems to be no explanation why these materials were separately treated. Here also appears a very brief remark on magnetite and "eagle-stone" amulets, followed by a short discussion on how to detect differences between real and false gems, among the interesting remarks being Brard's recognition of spherical inclusions as being typical of glasses rather than of real gemstones(p 209). Volume I closes with a good explanation of lapidary techniques and abrasive/polishing agents, and the "agate mills" of Idar-Oberstein, Pl IV. The engraved plates additionally depict crystal forms, a lapidary bench as used in Paris, wire saw, diamond cuts, disk saw, carving tools, a multiple-blade saw, a lapidary in the act of sawing, and a gem-engraver's bench with accessories. In contrast, the second volume is far less interesting to the gemologist inasmuch as it confines itself to monumental/architectural stones, eg, porphyries, variolites, amygdaloids, granites,etc, while others are the numerous varieties of marbles and alabasters, along with explanations of quarrying and processing of stones into finished shapes. A scarce and important work giving every evidence of great care in selecting and assembling accurate and useful information, reflecting the state of the stone arts at that time.

898. -----1821

Minéralogie | Appliquée | Aux Arts. | Ou | Histoire des Minéraux qui sont employés dans l'agriculture, | l'économie domestique, la médecine; la fabrication des | sels, des combustible et des métaux; l'architecture et | la décoration; la peinture et le dessin; les arts méca- | niques; la bijouterie et la joaillerie. | Ouvrage Destiné | Aux | Artistes, Fabricans Et Entrepreneurs. | Par C.P.Brard, | Ancien Directeur des mines de Servoz en Savoie, l'un des | concessionaires des houillères de la Dordogne. | Tome Premier[-Troisième]. | [monogram] | Paris, | Chez F.G.Levrault, rue des Fossés M.le Prince, N° 33, | et rue des Juifs, N° 33, à Strasbourg. | 1821.

8°: Vol I: [5], [1 blank], viii, 696 p; 4 engrav fold pls. 20.2 x 12.9 cm(8 x 5 in). Cropped. JSL; Ward & Carozzi 306; Dewalque 73; Agassiz, I, 408.

Cont: f bearing 3 title labels; 1/2tp; facsimile signature; tp; dedic; introd; text; pls explan; pls.

Vol II: [3], [1 blank], 491, [1 blank]p; 3 fold engrav pls.

Cont: 1/2tp; facsimile sig; tp; text; pls explan; pls.

Vol III: [3], [1 blank], 524 p; 8 fold engrav or litho pls.

Cont: 1/2tp; facsimile sig; tp; blank p; text; pls explan; index; pls.

Very large, comprehensive economic mineralogy; provides descriptions, sources, uses, etc, for a wide variety of mineral substances, including stones and minerals useful in the ornamentation of structures and the manufacture of ornamental objects, gems, and jewelry. The first division concerns minerals employed in agriculture, the second treats fuels and bituminous substances, while the third describes minerals that find applications in medicines and in veterinary practise such as salts but also including combustibles as sulfur, bitumen and amber (vol 1, p 220) followed by substances derived from metals, earth materials, and even a section on amulets which are called "remedies of the imagination." The fourth division, vol 1, p 245 ff, treats edible salts and other salines, sulfates, sulfur, compounds of iron and other elements. The plates depict manufacture of coal briquettes, major crystal forms, and assaying tools and devices. The fifth division, beginning the second volume, treats architectural stones, esp those of France, paving stones, stones for plasters, cements, etc, and decorative stones as porphyries, granites, marbles, and the like, the last esp treated on p 268-395. Also included here are alabasters and serpentines, and finally, the quarrying and working of stone into final architectural or structural shapes. The plates of volume 2 depict marble-working machinery. The third volume, beginning with the seventh division, treats mineral substances employed in ceramics, glazes, refractories, glasses, abrasives, and polishing agents, with remarks on the diamond as used in grinding and

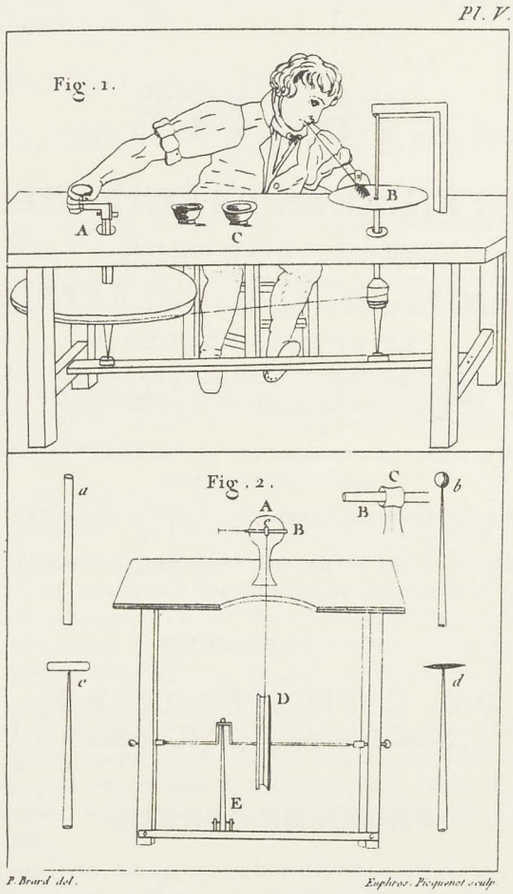


Fig. 1. *Moulin à couper les Pierres.*
Fig. 2. *Touret des Graveurs en pierres dures.*

897. Plate 5 from Brard showing a lapidary simultaneously pressing a gem to the cutting lap, lubricating the surface with a brush held in the teeth, and turning the lap with his right hand

polishing gemstones, esp in Idar-Oberstein(p 85-8), touchstones, millstones, gunflints, etc. The eighth division, p 145-417, is devoted to gemstones and begins with a discussion of properties, their determination, color, transparency, and then treats the species in classes arranged according to decreasing value. Such gemstones include the classic species but also organics and some ornamental stones. Identification tables are given on p 397-417, and are followed by plate explanations, the plates themselves depicting objects made from stone, chipped stones of antiquity, lapidary benches, a fine plate showing agate workers in Idar-Oberstein, hydrostatic balance, and a splendid plate(VII), part hand-colored, of faceted and cabochon gems. Although not so stated, it is obvious that this work is an enlarged edition of Brard's *Traité* of 1808. Both editions are scarce.

899. BRASSERT Bernstein-Regal in Ostpreussen. *Zs f Bergrecht*, Bonn, 40, 1899, p 282-98; also separate of 98 p. Not seen.

900. BRATLEY, GEORGE H

The Power Of Gems | And Charms | By | Geo.H.Bratley | Author of "The Art of Fascination," etc. | [logo] | London | Gay And Bird | 12 and 13 Henrietta Street, Strand | 1906 | [All rights reserved] [title in red & black] ["Cozy Corner" series]

8°: xi, 198, [1]p; orn inits. Pale gray wrap, title in dk blue within shield on cover & spine. 15.6 x 12.3 cm(6 1/8 x 4 7/8 in). Cut. Hand-laid type paper, watermark in prelims, text paper heavier. JSL.

Cont: bks in series; tp; publ data; pref; tab cont; text in 3 parts of 28 chs; index; publ data; blank p.

First section on historical charms, ie, jewelry, gems and coins, vases, goblets, weapons, stones, buildings, skulls, animals, and other curious objects supposed to possess inherent supernatural powers. Second section: occult-power jewelry and gems; includes brief chs on stones used in charms, language of precious stones, birthstones, mascots, talismans. Final section: ancient & modern theories on how mystical properties and powers arise and containing a ch on the efficacy of gems as charms.

A most interesting work, much valued for its subject matter and the views of its author who states, in the preface, that "much of the matter in Sections II. and III. is original, and the outcome of years of study and investigation." However, this statement must be taken cautiously because it is apparent that the material, on gemstones at least, says no more about curious lore than can be found in numerous treatises prior to Bratley. The absence of references is a serious defect.

901. -----1907, reprint

The Power Of Gems |... | 1907 |... [title all in black]

8°: text same; pale green cloth, overall dec & title on cover. Teg. Soft, somewhat blotter-like paper foxing in some copies. There are at least two reprintings, one giving "Gay & Bird" at spine foot and another "Gay & Hancock." JSL.

902. BRAULT, ALBERT These... Contribution a l'Étude des Néphrites. Paris, 4°: viii, 46 p. BM(NH); not seen.

BRAUNS, REINHARD ANTON(1861-1937)

Eminent Ger mineralogist; PhD U Marburg 1885; prof mineralogy & geol Tech Hochschule Karlsruhe, later in Giessen & Kiel U(1904), thence to U Bonn in 1907, remaining to death; early developed & maintained strong interest in gemstones as well as minerals; sometime edit *N Jb Min* and *Zentralbl Min*. Biogr notices E H Kraus, *Amer Min*, 23, 1938, p 131-3; L J Spencer, *Min Mag*, 25, 1939, p 284-5; Pogg 4, 177.

903. -----1903

Das | Mineralreich | Von | Dr. Reinhard Brauns, | Ordentl. Professor an der Universität Giessen. | [orn rule] | Mit vielen Text-Illustrationen | 73 Farbentafrln, 14 Lichtdrucktafeln und 4 Kunstdrucktafeln. | [logo] | Stuttgart. | Fritz Lehmann, Verlag. | 1903.

This large and costly color plate-illustrated mineralogy was originally issued in parts, or "Lieferungen," presumably to entice more buyers than would have been the case by offering the entire volume when finished at high cost. The parts consisted of portions of text and several plates and 30 in all were issued. The first part is described below.

1. Lieferung +Mk.1.50+ | Das | Mineralreich | Von | Dr. Reinhard Brauns | [orn] | [rule] Stuttgart [rule] | Fritz Lehmann + Verlag [title enclosed in orn art nouveau frame] [nd]

Thick, dull blue wrap, prospectus for entire work inside covers, advert of A Böttcher, a mineral dealer, on back cover. Wrap print in brown ink. P.size 30.4 x 22.2 cm(12 x 8 3/4 in). Uncut.

Subsequent issues appeared in pale blue, thin paper wraps, mainly plain, except for cover title; however, Lieferung 5 now advertised the entire set as "Vollständig in 30 Lieferungen à Mk.1.50 oder 5 Abteilungen à Mk.9.-." The publisher offered the small parts as previously promised but now also offered the entire work in 5 larger parts or "Abteilungen." Shortly thereafter a "Doppel-Lieferung 7/8" appeared at Mk.3-, another double for 13/14 at the same double-price, and with the 26th Lieferung an insert on blue paper offered to bind the book in one or two volumes, that is, a text volume and a portfolio enclosing loose plates, at Mk.3.50 and Mk.5.- respectively. Such binding, called "Original-Einbanddecke," was "made from the finest red-brown Morocco leather back and corners, with similarly colored linen covers of the most elegant, tasteful gold stamping." This binding is described below but the promised red cloth turned out to be green. Another option available to the buyer was to buy the plates separately; these were offered in sets of 80 plates in a strong paper-covered box with wooden base at Mk 60 - or 16 parts, each for Mk 4.25; alternatively, a choice of plates could be had of 60 in all at Mk 45 - or in 12 parts at Mk 4.25 each; single plates were also sold at Mk 1 - each. Near the end of the printing, or possibly just after, the publication was taken over by the press of J F Schreiber of Esslingen and München, thus resulting in some issues bearing a small label with the words "Esslingen und München | Verlag von J.F.Schreiber | 1903." pasted over the original imprint.

The original, complete work was issued in matching text and plates portfolio, enclosed in labeled cardbd slipcase.

4°: [2], 4, [3]p + p 6-440 + [7 advert]p + [1 blank]p; 275 figs (photos, line drawings). Dk red-brown leather spine & corners; edges outlined in double gold ruling; title in gold on covers, the latter of dull olive- green cloth; 4 false bands on spine with rules, orn rules at top and bottom, and gold lett with vol no. and text or plates designation. Heavy, brown paper endp; inner maroon cloth hinges. 28.7 x 29.8 cm(11 3/8 x 8 1/4 in). Ae stained dk red. Cut. LC 5-11655. Portfolio, same, but front endp and fly ff in art nouveau floral pattern; 3 flaps, folding inward; contains pls 1-82 + pl 87, the latter called the "Titeltafel" or front. Pls 83-86 have been projected but were

never publ. Pls 2,3,28,29,32,40,58,61 appear in two parts, hence there are 91 pls altogether, of which 73 are in color. Each pl on stiff white paper, print tissue overlay; 29.3 x 20.7 cm(11 1/8 x 8 1/8 in).

In the single-vol binding, identical to above in materials, appearance, size, etc, the title plate or front is placed in its proper position as are the other plates in the text.

This handsome work has long been prized for its numerous though somewhat crudely executed color plates, each one showing from one to as many as a dozen individual specimens in natural size. The latter were borrowed from a number of European museums, private collections, and especially from the collection of Gustav Seligmann of Koblenz, whose collection was later incorporated in the Bosch collection and the latter then sold to the U S National Museum, now the National Museum of Natural History, Washington, D C. The technical portion of the text provides an expert survey of mineralogy, enough to provide a good grounding in mineralogy for the amateur, but it is the descriptive portion and the details on localities that make this work most valuable to most of its users. It is also a useful reference to the gemologist because of its large section on gemstones and ornamental materials, p 188-287, embracing lapidary work, gemstone properties, indentification methods, fakes and synthetics, and other topics, much of the material being based upon the recently published Bauer *Edelsteinkunde* (1st edit 1896). Descriptions include quartz family, p 261-87, feldspars, 293-302, sodalite, 306, spodumene, 323, nephrite & jadeite, 330-5, meerschaum, 348, cordierite, 351-2, and amber, 423-8. Colored plates depict engraved gems, diamond, corundum, spinel & zircon, beryl, topaz, and many others; there is a fullsize photograph of the famous Gemma Augustea cameo of Vienna. A recent assessment of this work, and analysis of its content as well as several reproductions of illustrations appears in O Medenbach, "Der Brauns," *Magma*, 1, 1, 1983, p 27-30.

904. -----1905, Ital edit, Milan. Il regno minerale, Trad di E Artini. 2 vol. Milano: Vallardi, 1905; not seen.

905. -----190-?, Czech transl. Prague? Not seen.

906. -----1906, Russian transl, St.Petersburg. Tsarstvo mineralov. Opisanie glavnikh mineralov, ikh mestorozhdeniya i znachenie ikh dlya promyshlennosti. Dragotsennie kamni. Perevod S Nem. St Petersburg, 1906, 547. Not seen.

907. -----1908-1912, Engl transl

The | Mineral Kingdom | By | Dr.Reinhard Brauns | Professor Of Mineralogy In The University Of Bonn | Translated, With Additions, By | L.J.Spencer, M.A., F.G.S. | Assistant In The Mineral Department Of The British Museum | [orn] | With 91 Plates(73 Of Which Are Coloured) | And 275 Text-Figures | [orn] | Stuttgart | Fritz Lehmann, Publisher | 1908 | London Agents | Williams & Norgate, 14 Henrietta Street, Covent Garden

Like its German predecessor, this edition, issued in fragments, and otherwise full of bibliographical problems, was issued in 2 vols or one, each part with its own tp, but this fact is not made known until the book is opened and examined. Hence we find:

[Part 1]: 4°: front pl with explan f + [5], [1 blank]p + 194p; pls 1-40, text figs 1-157. 30 x 22 cm(11 7/8 x 8 3/4 in). Te cut; others untrimmed. JSL. GS 10-640.

Cont: pl; pl explan; tp; publ data; transl of Braun pref; transl note(dated 1912!); tab cont; pls list; introd; text.

[Part 2]: [2]p title + p 195-432; pls 40a-82; text figs 158a-275.

The title to this part reads:

The | Mineral Kingdom |... | Leonard J.Spencer, M.A., F.G.S. | Of The Mineral Department, British Museum | Editor Of The Mineralogical Magazine |... | Esslingen A.N. | J.F.Schreiber, Publisher | 1912 | London Agents | Williams & Norgate, 14 Henrietta Street, Covent Garden

Apparently in a noble attempt to clarify the confusion surrounding this work, the reverse of title states:

"Parts 1-3(pp.1-72) published 1908 by Fritz Lehmann, Stuttgart.
" 4-9(pp.73-184) " 1909 " " " "
" 10-15(pp.185-280) " 1910 " " " "

Part 16(pp. 281-296) published in 1911 by the Fritz Lehmann Co., Stuttgart.

Parts 17-25(pp.297-432) " 1912 by J.F.Schreiber, Esslingen,a.N."

The following from Spencer's note "no attempt has been made to give an exact literal translation... certain points have been modified to meet the needs of English readers... particularly to the enumeration of the localities slight additions have been made throughout... tables giving the amounts of production... have been made out for recent years... the general part has been increased by five pages... index by three pages, and there has been a curtailment of the special or descriptive portion to the extent of sixteen pages." Speaking of publishing difficulties, Spencer noted that "the original edition appeared in parts during the years 1903 and 1904... printed and published in Germany, and its tardy appearance in parts during 1908 to 1912 has been occasioned by two changes in the publishers." As a result of this erratic production, there is much confusion in identifying the various states and issues and it is possible to find copies which have the early titlepage or the later one, or both, depending on how such parts were given to the binder and how the latter chose to collate them. I have examined a single-volume example which may represent the "standard" binding, namely, in dark green morocco spine and corners, elaborately scrolled in gold on the spine, 4 raised bands, green cloth sides, blue marbled endpapers and marbled edges; 28.5 x 21.2 cm(11 1/8 x 8 3/8 in). A single volume example is described in GS 10-640, dated 1908, Lehmann. The gemstones text in the English version now occupies p 195-284; same illustrations & plates. JSL.

908. -----1912, reprint, German

Das | Mineralreich | Von | Dr.Reinhard Brauns | ordentl. Professor an der Universität Bonn | [orn rule] | Mit Vielen Text-Illustrationen | 73 Farbentafeln, 14 Lichtdrucktafeln und 4 Kunstdrucktafeln | Unveränderter Neudruck | Esslingen und Munchen | Verlag von J.F.Schreiber | 1912

4°: front pl with tissue as before, tip-in + [4], 440p + [6 advert]p; same pl, but front pl, formerly bearing "87" now has this number removed. Dk red-brown morocco, green cloth; endp now pink-veined dull green paper. Blue cloth inner hinges.

Stapled sections(commonly rusted!). JSL.

Bulk and unfortunate use of steel staples in lieu of sewing resulted in many copies of this reprint loosening or even dismantling. A cheaper version of this reprint has also been examined: dk blue buckram spine & corners, blue cloth sides, silver title on cover & spine; dull, gray-brown endp; stapled sections; 28.4 x 21.1 cm(11 1/4 x 8 3/8 in). Ae stained dk red-brown. Cut. Tissues for pls now thinner and less translucent; some pls show marked loss of sharpness & color quality; adverts absent.

909. -----1923, reprint, German Same title except for date. Bound in blue, unfinished cloth, silver title on cover but with brown & silver picture of a stibnite crystal group; silver title & logo spine; light red-brown endp; 28.5 x 21.1 cm(11 1/4 x 8 3/8 in). Ae stained dull red. Cut. Pls quality further deteriorated. JSL. GS, giving former LC no.

END OF MINERALREICH SERIES

910. -----1932 Ein eigenartiges Vorkommen von Amethyst im Staate Bahia, Brasilien. *Centralbl Min*, Stuttgart, Abt A, Abhandl, H 4, 1932, p 97-107, 6 fig. Amethyst in fissure linings in sandstone, Paraguay mine, Brejinho Das Ametistas, SW corner Bahia; similar deposits nearby; no chalcedony present; describes cross-sections, repeated twinning(photos).

911. -----1933(?) Schmucksteine. Sep from *Handwörterbuch der Naturwissenschaften*, Zweite Auflage, herausgegeben von R Dittler, et al. Jena: Verlag Gustav Bd VII, n 1069-1108. Three parts: generalities, 4 figs, individual natural gemstones, synthetics, 4 figs. First edit 1913, Not seen.

BRAY, B, see CALLOIS, R

BRECK, D W, see FLANIGEN, E M

BREHAUT, E, see ISIDORE, 1912

BRETON, J B J., see TAVERNIER, J B, 1810

912. BREWER, EMMA Precious stones; their homes, histories, and influence, introduction. *The Girl's Own Paper*, London,15, 721, Oct 21, 1893, p 36-9, with subsequent articles incorporated in *The Girl's Own Annual* as follow: ch 2, p 104, 106, 107; ch 3, p 142-3, 1 woodcut; ch 4, p 220-2, then followed by "All about the emerald," p 346-7, "The "unlucky" opal," p 519. Thereafter the original title resumes, but with subtitles "The turquoise, and cat's eye," p 556-8, "Semi-precious stones, Chrysoprase, amethyst, garnet, amber, and coral ," p 638-9. Easy to read, informative, some bits of scientific information here and there. JSL.

BREWSTER, DAVID, *Sir* (1781-1863)

Scot physicist/chemist; educ U Edinb; LLD U St Andrews 1807; MA Cambridge; edited *Edinburgh Mag, Edinb Encyclopaedia*; imaginative, learned, innovative; noted for spec investigations in crystal optics; invented the kaleidoscope; improved the stereoscope; invented lenses for lighthouses, etc. Pogg I, 295-7; III, 190-2; see *Martyrs of Science: Sir David Brewster 1781- 1868*, publ by Roy Scot Mus, Edinb, *Roy Scot Mus Studies*, 1984, Append IIb, "published writings of..." DNB, 216.

913. -----1813 On the new properties of light exhibited in the optical phenomena of mother of pearl, and other bodies to which the superficial structure of that substance can be communicated. *Phil Trans Roy Soc London*, 1813, pt 2, p 397-418, pl 14; 1814. When a pearl removed from a cement, the impression iridesced; tested on such substances as sealing waxes, tolu balsam, gum arabic, wax coated with gold leaf, tinfoil, etc; concluded that cause of iridescence due to fine surface structure of nacre and not underlying material.

914. -----1823 On the existence of two new fluids in the cavities of minerals, which are immiscible, and which possess remarkable physical properties. *Edinb Phil J*, 9, 1823, p 94-107. Short version of 1826 article below.

915. -----1823 On the existence of a group of moveable crystals of carbonate of lime in a fluid cavity of quartz. *Edinb Phil J*, 9, 1823, p 268-70.

916. -----1823 On circular polarization as exhibited in the optical structure of the amethyst, with remarks on the distribution of the colouring matter of that mineral. *Trans Roy Soc Edinb*, 9, 1823, p 139-52.

917. -----1826 On the existence of two new fluids in the cavities of minerals, which are immiscible, and possess remarkable physical properties. *Trans Roy Soc Edinb*, 10, 1826, p 1-41, pls 1-2(35 figs).Notes remarks of others on the problem of fluid inclusions in crystals, then describes own findings based on exams topaz from New Holland, Scotland, Brazil; chrysoberyl, Brazil; quartz crystals, Quebec; amethyst, Siberia, Ceylon; peridot, feldspar, emerald & beryl, fluorite, gypsum, barite, calcite, halite, etc. Highly important discovery: the "vacuities" or gas bubbles disappeared with heating and reappeared with cooling. Concluded such inclusions typical of crystals formed under hydrothermal conditions. Plates show many types of cavities with gas/liquid contents; first report of "squares," ie, cubes, of halite(?) in cavities.

918. -----1826 On the refractive power of the two new fluids in minerals, with additional observations on the nature and properties of these substances. *Trans Roy Soc Edinb*, 10, 1826, p 407-27, pl 19(13 figs), pl 20(10 figs), pl 21(1 fig). Reports more results of continued exam of inclusions; RI determined; pls 19-20 depict more cavities, liquids, and crystal inclusions; pl 21 is a splendid, carefully detailed drawing of a typical fracture-filling set of inclusions.

919. -----1827 Notice respecting the existence of the new fluid in a large cavity in a specimen of sapphire. *Edinb J Sci*, 6, 1827, p 155-6.

920. -----1829 On certain new phenomena of colour in Labrador felspar, with observations on the nature and cause of its changeable tints. *Trans Roy Soc Edinb* 11, 1831, p 322-31, pl 13(5 figs, 2 part hand-colored). Notes minute "parallelograms" of colored platelets in labradorite which he believes to be empiy cavities; also speculates on moonstone sheen.

921. -----1845 On the existence of crystals with different primitive forms and physical properties in the cavities of

minerals; with additional observations on the new fluids in which they occur. *Trans Roy Soc Edinb* 16, 1849, p 11-22, pl 1(16 figs). Inclusions in topaz.

922. -----1852 The diamond - its history, properties and origin. *North British Review* 18, 1852, p 186-234; *Eclectic Mag*, 28, 1852, p 1-24. Not seen.

923. -----1853 On cavities in amber containing gases and fluids. *Phil Mag*, London, ser 4, 5, 32, 1853, p 233-5, Not seen.

924. -----1853 Account of a remarkable fluid cavity in topaz. *Phil Mag*, London, ser 4, 5, 32, p 235-6. Not seen.

925. -----1864 On the pressure cavities in topaz, beryl, and diamond, and their bearing on geological theories. *Trans Roy Soc Edinb*, 23, 1862, p 39-44; 1864. For rev of Brewster's papers on inclusions, see Edwin Roedder, Composition of fluid inclusions, ch JJ, Data of Geochemistry, 6th edit, *USGS Prof Paper* 440-JJ, 1972, 164 p, pls, figs.

BŘEZINOVA, DRAHOMÍRA, see SBORNIK NARODNIHO MUZEA

926. BRIAND, RENA

White Man In A Hole | Rena Briand | Phuong-Hoang Press Melbourne [1971]

Cementb: 155 p + [5 blank]p; 16 col photos on both sides 8 glossy f bound-in; 15 b&w photos on 4 f; sketch map. Wrap, photo on cover; photo & resume back cover. 20.8 x 14 cm(8 1/4 x 5 1/2 in). Cut. Austral $2.95. JSL.

Cont: tp; publ data; ackn; dedic; tab cont; introd; 20 chs; 5 blank p.

Observations on mining for opal and life in Coober Pedy, South Australia, rich in detail, numerous historical anecdotes and also stories of modern experiences; much information on opal itself, mining, type deposits, etc passed on with the stories. Very worthwhile. Photos of scenes, views in mines, persons, with some color photos rather poor in quality. The title of the book translates into "Coober Pedy" in the aboriginal tongue. Rev *Austral Gemm*, 11, 4, 1971, p 23, "most strongly recommended."

927. BRIDGMAN, HELEN BARTLETT

Gems | -By- | Helen Bartlett Bridgman | [orn] | Brooklyn, N.Y. | 1915 [privately publ?]

8°: 117, [3 blank]p. Thick pale brown paper wrap, title in double-rule frame on cover. 22.8 x 15.2 cm(9 x 6 in). Cut. LC 26-15723. Also in brown or red cloth, title & orn in gold on cover; green floral endp. 22.7 x 15.2 cm(9 x 6 in). Cut. Red cloth issue slightly smaller, 21.5 x 15 cm (8 1/2 x 5 7/8 in). Cut. Flower orn on cover. JSL.

Cont: tp; publ data; dedic; text; poem; blank p; index; 3 blank p.

Short essays on gemstones in easy readable style, stressing the human rather than the technical side. Text includes a review of important milestone books in gemological literature from Theophrastus to several contemporary writers but their specific works are not given. Topics: engraved gems, Biblical gemstones, famous jewels, principal gemstones, many of lesser importance, organic gems, pearl, syntheses, gemstone tests, and gems in the sky; a short poem closes the text. Text not free of misspellings and factual errors.

928. BRIEF HISTORY OF AMBER, A

A Brief History | of Amber | [3 dots] | [stamped on the title in pale red-purple ink, a double circle enclosing "Sesquicentennial International Exposition Philadelphia Pa." and in the center of the stamp "The Amber Trading Co. Ltd. British Section."

Centersewn with bright yellow ribbon: 15 p; 3 small tip-on photo pls in text; centerfold of 2 glossy f with col photos of amber insect inclusions & pendants. Stiff tan paper wrap, title in orn script in orn oval frame on cover; letterpress in green ink. Wrap size 19.2 x 11.5 cm(7 1/2 x 4 1/2 in). JSL.

Handsome advertising brochure giving basic facts about Baltic amber and its natural and cultural history. The Philadelphia exposition took place in 1926; this brochure was undoubtedly prepared by the amber industry organisation of Prussia although nowhere is an author, publisher, date, or place of publication indicated.

929. BRIGGS, HENRY E A gemological encyclopedia. *G & G*, 1, 1, 1934, p 19-20, to vol 4, 5, 1943, p 77-80; 38 contribs, ea ca 2-3 pp.

930. -----1944

An | Encyclopedia | Of | Gems | by | Henry E. Briggs, Sc.D. | Published by the | Gemological Institute Of America | United States And Canada | 541 South Alexandria | Los Angeles [1944]

8°: [2 blank]p + ff i-v + p vi + 83, [1 blank]p; the first 4 numb ff printed recto only; 5th printed recto & verso, bearing verso the number "vi" ! Dk red cloth, black title in black frame on cover; black lett spine. 29.4 x 13.7 cm(8 x 5 3/8 in). Cut. JSL. LC 44-10204.

Cont: blank f; tp; fwd; pref; tab cont; table of colors; 8 chs; tables; index; blank p.

Derived from the above entry in *Gems & Gemology*, but with "certain revisions of text." Topics: optics, nomenclature, synthetic & assembled gems, cutting, valuation, gem descriptions, with a series of 11 tables, and including gemstone sources and crystallographic note.

BRIGHT, ALEC, see SELIGMAN, D H

BRIGHT, E, see BAUMANN, G

BRIGHTMAN, F H, see BEST, M R

BRIJ BHUSHAN, J, see BHUSHAN, J B

931. BRILL, AUGUST

Idar, Aufsätze zur Natur und Geschichte der Stadt und ihrer Umgebung. 2 Bände. Idar-Oberstein, 1935-38, not seen.

BRILL, AUGUST, see OLDENBURGISCHEN INDUSTRIE... IDAR.

BRISSON, MATHURIN JACQUES(1723-1806)

Eminent Fr physicist; b Fontenay-le-Comte; studied under R A F de Réaumur (1683-1757); prof physics Coll of Navarre, Paris; publ num sci papers & larger

works, eg on physics, physico-chem; d Broissi nr Versailles.Pogg I, 301-2; DSB 2, 473-5.

932. -----1787

Pesanteur | Spécifique | Des Corps. | Ouvrage utile à l'Histoire Naturelle, à la | Physique, aux Arts & au Commerce. | Par M.Brisson, de l'Académie Royale des Sciences, | Maître de Physique & d'Histoire Naturelle des Enfans | de France, Professeur Royal de Physique Expérimentale au | College Royal de Navarre & Censeur Royale. | [woodcut orn] | A Paris, | De L'Imprimerie Royale. | [double rule] | M. DCCLXXXVII. [1787]

4°: 1 blank f; titleleaf + xxiv, 453 p. + [1 blank]p + xx, [2]p; pi^2, a-c^4, A-Nnn^4 Ooo^2; 2 engrav pls bound-in betw p 336-7(crystal forms). 27.3 x 21.5 cm(10 3/4 x 8 1/2 in). Uncut. JSL.

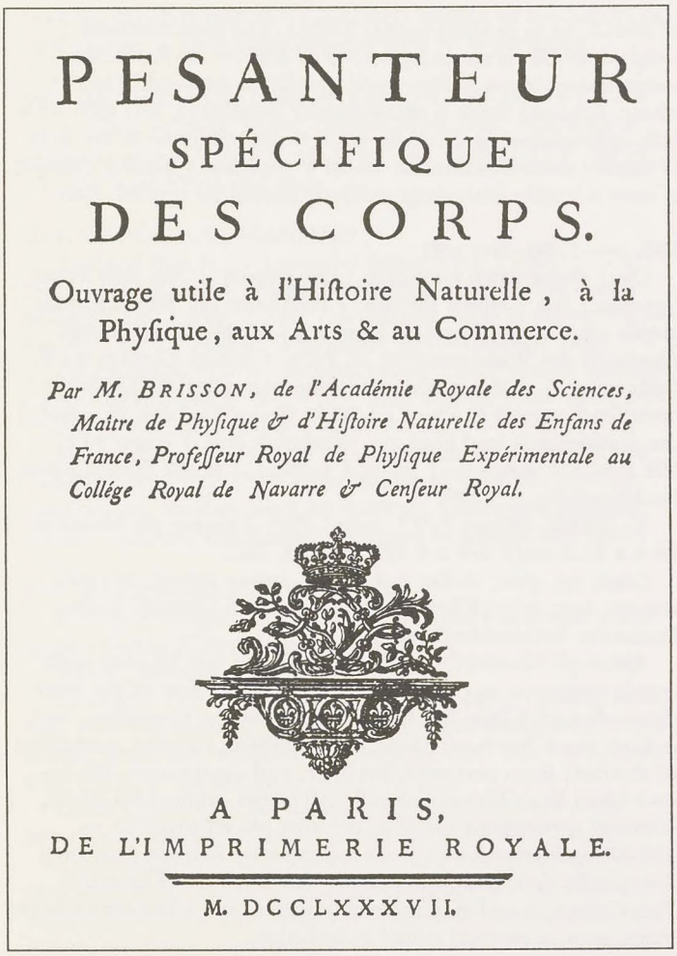
Cont: blank f; title f; introd; tab substances treated(also serving as tab cont); text; index; errata; approb; instruction to binder.

Numerous inaccuracies in earlier specific gravity compilations, including the extensive tables of P Van Musschenbroek(1692-1761), led Brisson to reinvestigate a large number of metal, mineral, fluid, animal, and vegetable substances to determine new values of specific gravity using distilled or rainwater at standard temperature. Included are a large number of gemstones. The problem of identifying a mineral when it bore only a name was pointed out, and Brisson therefore described such substances in enough detail to enable others to recognize them when encountered in other specimens. In the case of minerals, he also had prepared two plates of crystal forms which are coordinated by number with the mineral mentioned in the text. His introduction gives his conditions of testing, methods of calculation, weighing apparatus, and other details of his work; repeated hydrostatic weighings were taken to insure accuracy.

Text arrangements are as follows: I Metallic substances, II Stones which are divided into classes according to a scheme of Daubenton, III inflammables, ie, sulfurous materials, resins, liquids, misc animal & vegetable materials. Class II is further divided into four orders, hard stones which give off sparks when struck against other stones, stones showing no trace of reaction to acids, stones reacting(with bubbling) to acids, and igneous & volcanic or furnace products. No less than 989 specimens in this class were tested, of which about 150 were precious and ornamental stones, not counting dozens of specimens of ornamental rocks as marbles, alabasters, also jet, ambers, and pearl.

In a highly commendatory review of Brisson's treatise, B W Anderson (*The Gemmologist*, 8, 87, 1938, p 36-8) states that "Brisson's experiments were made... using distilled water or pure rainwater and working at 14° Reaumur (17.5° C). He used three different balances... the most delicate, used for most of the gemstones, was sensitive to 1/64 of a grain, that is, less than a milligram. The densities are given relative to water = 10,000, so that, for instance, a quartz value is written 26535." Aside from a few inexplicable deviations from current density values, Anderson concluded that Brisson's results were remarkably accurate, as shown in Brisson's values on gemstones, largely appearing in the table on p 291-4.

Not only was Brisson among the first to provide useful density determinations, he should be regarded as a pioneer in scientific gemology because he recognized consistent differences in values between various gemstone species and urged that these



PESANTEUR
SPÉCIFIQUE
DES CORPS.

Ouvrage utile à l'Hiſtoire Naturelle, à la Phyſique, aux Arts & au Commerce.

Par M. BRISSON, de l'Académie Royale des Sciences, Maître de Phyſique & d'Hiſtoire Naturelle des Enfans de France, Profeſſeur Royal de Phyſique Expérimentale au Collége Royal de Navarre & Cenſeur Royal.

A PARIS,
DE L'IMPRIMERIE ROYALE.

M. DCCLXXXVII.

932. Brisson's treatise on the specific gravity of bodies, including a large number of gem minerals and the Regent diamond

be used as a means of identification in conjunction with color and obvious external features, especially crystal shapes, hardness, and single or double refraction. The importance of refraction is emphasized as most useful and Brisson gives in the introduction, p xvii, a list of colored gemstones with their densities and refraction, although as Anderson points out, this table is not wholly accurate. With such data, contended Brisson, it should be possible to simply and accurately distinguish gemstones which resemble each other but are different species, or to distinguish true gemstones from their imitations or falsifications. While R J Haüy's famous gem-identification treatise, *Traité des caractères physiques des. pierres précieuses pour servir a leur determination*, 1817, was the first monograph published on gem identification, it was based upon Brisson's work and indeed acknowledges it as a source. In terms of time therefore, Brisson is first.

Students of diamond history will be interested in the fact that Brisson obtained an excellent value of diamond density by borrowing the Regent diamond and a heart-shaped, blue brilliant diamond from the Royal Treasury, the latter being presumably the same stone that disappeared during the Revolution and was never seen again although many believe that the Hope diamond, now in the Smithsonian, was cut from it. The Regent weighed 529 grains or 140.7 metric carats and provided an SG

of 35212, or in modern terms, 3.5212. The blue diamond weighed 69.03 carats and gave SG of 3.5254. As Anderson, stated above, "these values could hardly be bettered." On the whole, Brisson's book is uncommonly mentioned, and then with little appreciation of either its value to gemology or to the field of density determination for which it provided a sterling example of how scientific laboratory methods should be applied. Rare.

933. -----1795, Ger edit

Die | spezifischen Gewichte | der Körper. | Aus dem Franzosischen | des | Herrn Brisson, | Professors der Experimentalphysik am College Royal de Navarre, | Mitglieds der königl. Akademie der Wissenschaften zu Paris, | königl. Censors u.s.w. | übersetzt, | und mit Anmerkungen, besonders die Litteratur | betreffend, vermehrt | von | Johann Georg Ludolph Blumhof, | der Mathlematik und ökonom. Wissensch.Befl. | [taper rule] | Mit zwei Kupfertafeln. | [rule] | Leipzig, | in der Schäferischen Buchhandlung, | 1795.

8°: XXXII, 392 p; *-**^{8}, A-Aa^8, Bb^4; 2 engrav pls bound-in. 19.4 x 11.5 cm(7 5/8 x 4 1/2 in). Cut. JSL.

Cont: tp; quot; dedic; transl pref; author introd; tab substances; text; tabs; Kästner's "Nachricht von Ghetaldi Buche: Promotus Archimedes;" pls.

Although Blumhof, the translator, states that he casts aside certain matter as too unimportant, an examination of the work shows that very little has been changed during translation, and indeed, much has been added, eg amplifying remarks, quotations & abstracts from pertinent literature, and comparative SG figures taken from Musschenbroek. All of the original SG tables, scattered throughout the text, are now placed together, p 331-80, following which is an appendix by Kästner describing the specific gravity determinations and methods of Ghetaldi. This German transl is considerably scarcer and more desirable in many ways because of added information.

BRISTOW, HENRY WILLIAM(1817-1889)

Brit geol, mineralogist; educ King's Coll London, then into Geol Survey Gt Brit 1842-88(retired), event rising to Dir for Engl & Wales; most field work & studies in Brit Isles; noted for splendid transl of Simonin's *La Vie Souterraine* "Underground Life,"1869), and Figuier's *La Terre Avant le Deluge*("The World Before the Deluge;" 1869, 1882). Obit H B Woodward, *Geol Mag*, ns 6, 1889, p 381-4; Pogg III, 196-7; DNB.

934. -----1861

A | Glossary Of Mineralogy. | By | Henry William Bristow, F.G.S. | Of The Geological Survey Of Great Britain, | [woodcut: crossed hammers, surrounded by "scientia et utilitas"] | London: | Longman, Green, Longman, And Roberts. | 1861.

8°: xlvii, [1 blank], 420 p + 32 p catalog publ bks; woodcut tailpcs; 7 woodcut figs in introd & very many small cuts in text. Green, pebbled cloth, blind frame on cover with the titlep cut now in gold on cover; blind frame back cover; gold orn, rules, lett spine. Dull pale gray-brown endp. 19 x 12.3 cm(7 1/2 x 4 7/8 in). Te unopened; others untrimmed. JSL; Dewalque 82. Reprinted several times. GS 5-496.

Cont: 1/2tp; publ data; tp; pref; biblio(p vii, 26 entries) ; tab cont; introd; list symbols/signs; tech terms used by jewelers & lapidaries; errata/addenda; glossary; cat of bks.

A technical introduction succinctly defines properties and crystallography and discusses chemical composition, classification, and gives a list of special jewelers/lapidaries terms, as well as a floor plan of the Museum of Practical Geology in London. The main text contains many hundreds of terms, making it one of the major glossaries in geology/mineralogy and retaining much of value even today. The entries are far more than mere definitions and in most instnaces provide concise descriptions accompanied by historical and locality data, Very many gemstones and varieties are included and receive similar treatment, even going so far as quote ancient authorities in the historical remarks. Uncommon; much esteemed.

935. BRITISH ASSOCIATION British Association. South African Meeting, 1905. Kimberley Handbook. Kimberley: Printed by the Diamond Fields Advertiser, Ltd.... 1905. 12°: 60 p. From Mendelssohn, who states "a small guide-book published for the use of the members... who visited Kimberley in 1905. The notes entitled "Sightseeing in Kimberley," which include some information regarding the diamond mines, were contributed by Mr Gardner F Williams, and some up-to-date photographs illustrate the progress attained by the premier industry of the town. "Some features of Kimberley," by Advocate S B Kitchen, give a short sketch of the history of the diamond city and its surroundings, and there is an account of the "De Beers Consolidated Mines," with many interesting replicas of early photographs of the mines, and a description of the Siege of Kimberley, &c. &c." Not seen.

936. BRITISH GUIANA. REPORT OF THE DIAMOND AND GOLD INDUSTRIES COMMISSION...

Legislative Council No.10, Georgetown, Demerara, 1928, 46 F; not seen.

937. BRITISH GUIANA. LANDS AND MINES DEPARTMENT... Mineral resources, British Guiana, Georgetown, 1933, 64 p; not seen; diamonds discussed along with other minerals. Rev edit see GS 37-208.

938. BRITISH MUSEUM

Jewellery | Through 7000 Years | Published for The Trustees of the British Museum by British Museum Publications Limited [London: 1976; black tp, white lett.]

8°: 276, [4 blank]p; 27 col photos(pls) on 8 bound-in f includ in pag; ca 430 illust(mainly photos). Red, unfin cloth, gold spine lett; black dj, col photo on cover, cameo back cover; resume. Pale gray endp. 24.6 x 18.7 cm(9 3/4 x 7 3/8 in). Cut. £ 5.50. ISBN 0 7141 0054 4. JSL.

Cont: 1/2tp; front photo & tp; publ data; tab cont; pref; introd; notes ; col pl sect tp; col pls; cat tp; catalog; gloss; biblio(p 267-71, ca 250 entries); index; index of donors & loans; 2 blank f.

Remarkable & valuable guide to a bewildering variety of personal ornaments in precious materials spanning 7000 years of human history. The objects, all from the British Museum collections, date from 5000 BC to the middle 19th century, but the total number was deliberately restricted to about 500 items. Hugh Tait's introduction: general remarks on style, uses, materials. Chapters are arranged chronologically but last three all on amuletic jewelry, cameos in jewelry, and finger rings. Scarcely any type of jewelry is missing from this lavishly illustrated work and there is an abundance of gemstones and gem materials of various kinds, including carvings in jade, mosaics, inlays, cabochon & faceted gems, etc. Aside from the first 8 leaves of splendid color photographs, all the rest, except for some text drawings, are placed in the wide margins near the objects concerned.

Object description terse but complete; the bibliography is important & useful.

BRITZ, K M, see FISCHER, C W, 1956; also LIEBER, W, 1870.

939. BRITZ, ROELF Goudkoors. Kennis vir almal. No 35. Bloemfontein, 1945,
8°: 93 p, pls. On diamonds; not seen.

940. BROCKETT, RON
The Moscow Opal Mines - 1890 to 1893 [underlined] | (The First Commercial Opal Mines | in the United States) | Ron Brockett [np, nd; Rangely, Colorado(?), 1974(?)]
Centerstapled: [8], 63 p.; 5 ill; very pale gray print wrap, title in frame, decorated, on cover with price of $3.00. 21.6 x 13.9 cm(8 1/2 x 5 1/2 in). Cut. Typed correction slip inserted. JSL.
Cont: tp; publ data; 3 photos(one/f) ; tab cont; introd; 5 chs; ps; append; biblio(p 61, 335 entries); blank p.
History and miners of precious opal in an area on border between states of Washington and Idaho; largely quotations from contemporary mining reports, newspapers, & periodicals, arranged chronologically and annotated. Useful compilation which corrects some mistaken ideas about the quality, quantity, & value of the gem opals mined from the field. Rev *J Gemm* 14, 4, 1974, p 193.

941. -----1975, 2nd edit. Same title; adds LC 75-11083, and on reverse of tp a label stating "3000 Lester Rd. Denair, Ca 95316."
Centerstapled: [13], 65, [3 blank]p; 12 photos(one doublp), sketch 2 advert in text. Thick pale yellow print wrap, framed title on cover. P size same. $3.00. JSL.
Cont: tp; publ data; photos & map; tab cont; introd; 5 chs; ps; append; biblio(p 63-5); 3 blank p. Adds a note in append; new photos & sketch map.

942. -----1981
Prospecting And Mining For Opal | Along The Snake River In Southwest Idaho | During The Eighteen Nineties | (A brief History of Idaho's Opal Industry | in Owyhee County and a Sketch | of the Early-Day mining Camp of Opaline) | Ron Brockett | [logo] | Pick & Shovel Press Klamath Falls, OR [1981]
Cementb: [10], 77, [1 blank]p; 5 text photos; 2 photos on 2 unpaged f betw p 36-7; photo of author inside back cover; photo view outside back cover; sketch map; text fig. Glossy white wrap, black lett title & quot on cover. 21.7 x 14 cm(8 1/2 x 5 1/2 in). Cut. JSL.
Cont: tp; publ data; ackn; sketch map; 5 photos; tab cont; pref; text; append; notes; biblio(p 75-7, 32 entries); blank p; photo & vita of author inside back cover; photo view outside back cover.
Careful research in newspapers, journals, and formal treatises on geology, mineralogy, gem mining, etc, pertaining to discovery & mining of precious opal in Idaho serve to create a picture of an "opal rush" to the small settlement of Opaline in Owyhee County. Discovery described, persons involved, type deposits, the opals, mining, qualities and prices, etc. With his previous booklet, Brockett provides a complete picture of the history of opal mining in Idaho and adjacent areas in Washington.

943. BROCKMAN, CHRISTIAN FRANK(1902-) The story of the petrified forest; Gingko State Park, Washington. [Tacoma: North Pacific Bank Note Co., 1952] ; 16 p, ill, 23 cm. LC A 52-9990; not seen.

944. BRODRICK, HAROLD J
Agatized Rainbows | Popular Series No.3 - 1951 | ... A Story of the Petrified Forest | Presented By Petrified Forest Museum Association | And The Arizona State Highway Department | Text By Harold J. Brodrick, Park Naturalist [np]
Centerstapled: [24]p, includes wrap; 22 col photos including covers; sketch map in col. Wrap, brief title on cover. 24.1 x 17 cm(9 1/2 x 6 3/4 in). Cut. JSL.
Mainly col photos of logs & landscapes; text explains why collecting prohibited, also gives history of the park, geology, paleobotany, lapidary work on material; prehistoric animals; Indian ruins, and other topics designed to interest the visitor.

945. BRØDSGAARD, KIRSTEN
Kirsten Brødsgaard | Laer smykkestenen | at kende | Berlingske Forlag [Copenhagen, 1970]
Series: "Berlingske fritids bøger,"
Cementb: 127, [1] p; ca 40 ills & tabs called "plates," ca 30 figs, 4 col photos on 2 glossy f. Black paper wrap, col photo on covers; white lett; resume; vita. 19 x 11 cm(7 1/2 x 4 1/4 in). Cut. ISBN 87 19 30280 0. 16 kr 50. JSL.
Cont: 1/2tp; tp; publ data & other publ bks; tab cont; introd; text; properties tab; biblio(p 126, 9 entries); index.
Professional Danish gemologist writes a brief but comprehensive work on gemstone identification: properties, instruments, cutting styles, brilliance, major gemstones & descriptions, rarer stones, synthetics, organics, collecting. Many tabs summarize properties. Rev *J Gemm*, 13, 4, 1972, p 151.

BROGDEN, Mrs JOHN, see CASTELLANI, AUGUSTO

946. BROMAN, M G
Blue Gold | The Turquoise Story | By M.G.Broman | [large dot] | All Rights Reserved | Mickey G.Broman | Copyright 1975 | Library Congress | Catalog Card Number | 74-20148 | [to left in column:] Published | by | Main Street Press | P.O.Box 4262 | Anaheim, California | 92803 | [to right:] Distributed | by | Gem Guides Book Co. | 5409 Lenvale | Whittier, Calif. 90601 [Title enclosed in single-rule frame]
Cementb: iv, 84 p; 22 col photos on 6 glossy f; 79 figs(photos, sketches, map). Thick glossy black wrap, col photos both covers; blue & gold lett front; photo captions inside covers. 21.2 x 13.6 cm(8 3/8 x 5 3/8 in). Cut. $4.95. JSL.
Cont: to; ackn: dedic; introd; text; conclusion; poem; biblio (p 79, 11 entries); publ bks; index(actually tab cont).
Major aspects of Southwestern U S turquoise treated in elementary style: history(with a contribution by Dr S A Northrop), mineralogy, type deposits, mines & mining, major sources & qualities, lapidary treatment, and setting gems in silver jewelry. Useful; much good information.

947. -----1976, 2nd edit
Blue Gold | ... | All Rights Reserved | Mickey G.Broman | © Copyright 1976 ...

Cementb: vii, [1 blankl, 101, [1 blank], [2]p.; 22 col photos on 6 glossy f, 80 b&w photos, 11 drawings, 2 tabs, sketch map. Wraps as before; same p size. $4.95. JSL.

Cont: tp; ackn; reprod of *Congress Rec* pp; dedic; index; introd; text; biblio; photos & advert; other publ bks; blank p; 2 pp "notes."

Extensive revisions, new material, includes facsimile of pages of *Congressional Record* pertaining to adoption of turquoise as US national gemstone; new information on artisans in turquoise silverwork; "How to build an Indian reference library;" some photos exchanged & others added; index omitted.

948. BROMEHEAD, CYRIL EDWARD NOWILL Geology in embryo (up to 1600 A.D.). *Proc Geol Assoc*, London, 56, pt 2, 1945, p 89-134. Also reprinted, wrap with society seal, other lett., etc. 21.7 x 14.2 cm(8 1/2 x 5 1/2 in). Cut. JSL. Brief history and included sciences as paleontology and mineralogy, citing numerous modern and ancient authors(biblio p 129-34, ca 100 entries of "contemporary authors"). Much interesting and informative commentary and a surprising amount of space is devoted to gemstones as well as certain magical stones conmonly classed with gemstones in older writings. Text from classical period to Dark Ages to Renaissance. See particularly "building and ornamental stones and marbles," p 107-12, but also larger sections on gemstones under mineralogy, p 113-8, and elsewhere.

949. -----1947 Aetites or the eagle-stone. *Antiquity*, London, 21, Mar 1947, p 16-22, pls I-II(on one glossy f). Also reprint. JSL. Examines a stone to which mystic powers were attributed in antiquity and defined by Bromehead as "any hollow stone containing loose matter, a smaller stone or sand, which rattles when shaken." Traces mentions & descriptions in older writings as listed on p 21-2, 27 entries. While not a gemstone, aetities was commonly included among them in early lapidaries.

950. -----1947 Practical geology in ancient Britain. Part I.-The metals. *Proc Geol Assoc*, London,58, pt 4, 1947, p 345-67; Part II.-The Non-metals. *Ibid*, 59, pt 2, 1948, p 65-76. Also in reprint. JSL. The non-metals part contains large sections on stone, semi-precious and ornamental stone, and engraved gems, the latter lost or discarded by Romans. Includes Kimmeridge coal as well as the better known Whitby jet; also amber, fluorite. Biblio p 75-6, 22 entries.

951. -----1947 A geological museum of the early seventeenth century. *Quart J Geol Soc*, London, 103, pt 2, 1947, p 65-87, pls 2-5. Also in reprint, printed wrap, 21.6 x 14 cm(8 1/2 x 5 1/2 in). Cut. JSL. "The paper describes the five volumes labeled "Fossils" which are among the Italian drawings purchased by George III in 1762... the drawings have been identified as... specimens in the Museum of the Academy of the Lynxes in Rome in 1626." Among the objects discussed by Bromehead as being present in this museum are fossil fish teeth and other patterned fossils which were commonly included among gemstones in early lapidaries, also he notes amber and inclusions in same(frogs!), fossil wood, lignite, chalcedonic varieties, jade, chiastolite, lapis lazuli, aetites, marbles, and more. The plates are reproductions of the drawings, some in color, save one, which shows a lignite quarry in Stelluti, F., 1637, *Trattato del legno fossile*, etc. One finds learned and useful commentaries by Bromehead, particularly as they compare the objects with similar examples in other natural history collection catalogs of the same period. There is a biblio of 50 entries, p 83-5, also plate explanations and discussion by other members of Geological Society.

952. -----1952 What was murrhine? *Antiquity*, London, 26, Jun 1952, p 65-70. Also reprint. JSL. Bromehead tackles the insoluble problem of identifying the mysterious "murrhine" known to the Romans and mentioned by Pliny; he compares the views of others, and then concludes that it must have been a massive form of fluorspar. Biblio; footnotes.

BRONGNIART, ALEXANDRE (1770-1847)

Fr min eng, mineralogist; son of distinguished Parisian architect; studied École des Mines, later École de Médecine; 1794 apptd Eng of Mines; 1797 prof nat hist École Centrale; 1818 apptd Chef Eng of Mines; 1822 succeeded Haüy as prof mineralogy at Mus d'Hist Nat, Paris; sometime dir Sèvres porcelain factory. DSB 2, p 494; Pogg I, 306.

953. -----1807

Traité | Élémentaire | De | Minéralogie, | Avec Des Applications Aux Arts; | Ouvrage Destiné A L'Enseignement | Dans Les Lycées Nationaux. | Par Alexandre Brongniart, | Ingénieur des Mines, Directeur de la Manufacture impériale | de Porcelaine de Sèvres. | Tome Premier[-Second]. | [orn rule] | De L'Imprimerie De Crapelet. | A Paris, | Chez Deterville, Libraire, rue Hautefeuille, n°8, | au coin de celle des Poitevins.| 1807.

8°: Vol I: xij, 564 p; Vol II: [1], [1 blank], 443, [1]p; 16 engrav fold pls. 20.2 x 12.8 cm(8 x 5 in). Cropped. LC 21-19268; JSL.

Cont:Vol I: 1/2tp; tp; pref; introd; tab tp; tab; text; Vol II: 1/2 tp; tp; text; suppl; pls explan; index; errata; pls.

An economic mineralogy. The large introduction is a condensed treatise on mineralogy, followed by a scheme of classification, a large table of same, then descriptions and discussions of mineral substances that extends into the second volume. In Volume I, under "pierres dures," are quartzes, silex and petrosilex or generally chalcedonic forms of quartz, also obsidian, lapis lazuli, jade, axinite, euclase, and others from p 271 onward but the principal matter on gemstones is in Volume II, p 67-484, and includes zircon, quartzes, obsidian, jades, feldspars, andalusite, lazulite, diopside, garnets, tourmalines, euclase, beryls, chrysoberyls, corundums, peridot, and others. Serpentine is classed as an "unctuous" stone and amber appears in the "combustibles" along with diamond.

954. -----1823

Essai | Sur Les | Orbicules Siliceux | Et | Sur Les Formes A Surfaces Courbes Qu'Affectent | Les Agates Et Les Autres Silex (I): | Par M. Alexandre Brongniart, | De l'Académie royale des Sciences; Professeur de Mineralogie | au Jardin du Roi, etc.

Extr: *Annales des Sciences naturelles*, Paris, 23, 1823, p 1-40, pls 2-5.

8°: 40, [1], [1 blank]p; 4 engrav pls. 19.6 x 12.6 cm(7 3/4 x 5 in). Cut. Originally in printed wrap(?). USGS Kunz Coll, GS 34-893.

Cont: text; explan of pls; blank p; pls.

Studies orbicular structure in chalcedonies, especially when it

replaces fossils, giving in a table on p 21-3, the principal petrifications in which silica is present in orbicules. Growths of chalcedony are shown upon the plates.

BROSTE, PAUL A (1887-)

Farmer; b nr Pekin, South Dakota; little formal educ but studied fine arts at Chicago Art Institute; skilled amateur lapidary.

955. -----1953

A Proem | Souvenir of My Hobbies | Painting - Lapidary - Poetry | Pioneer Stories in Prose | Author and Publisher | Paul A.Broste* | Colored Illustrations | and | Black and White Illustrations | *The name is pronounced in two syllables - Bros'-tē. [Parshall, N Dak, priv publ, 1953]

16°: [2 blank]p + xx, 104 p + [6 blank]p + [2], 18 p + [2 blank]p; front portr of author; 7 col & 21 b&w photos. Pale green cloth, author's hand-drawn title & ornament reproduced on cover in dull red, the same appearing on dj; red lett spine. Pale tan dj, with design, resume, other data. 21.6 x 14.5 cm(8 1/2 x 5 3/4 in). Cut. $3.75. JSL.

Cont: blank f; pl; tp; publ data; dedic; index to prose & poetry with rubber stamp drawing attention to suppl; index of ills; fwd; about the title; how a sphere is made; explan of sphere photos; text; 3 blank f; tp to suppl; index to suppl; prelude; text; blank f.

The Supplement bears own title and appears to have been incorporated from sheets previously printed:

The Making of Stone Spheres | Published as a Supplement to | "A Proem" | by | Paul A.Broste | Author and Publisher | Dedicated to the Craft and Art | of Sphere Cutting | Copyright, 1954 | by Paul A.Broste | All Rights Reserved [centerstapled pamphlet]

Curious, fascinating melange of 38 poems and 9 essays, some about gemstones and minerals, and others about personal and family experiences, pioneer life, and ideas which caught the imagination of Broste. The foreword explains the author's hobbies and gives a very brief description of sphere cutting, in which lapidary work he was very expert and won considerable acclaim for his production of high-quality spheres made from many types of material and often in large size as shown in some of the illustrations. The supplement, however, gives the process in much more detail and strengthens my opinion that it was meant to be issued separately and incorporated in the present book as an afterthought. Broste attended many shows and was influential in publicising sphere making and encouraging development of this aspect of amateur work.

956. BROUGHTON, PAUL L The gemmiferous gravels of the Fraser and Reddistone Creeks, Inverell-Glen Innes district, New South Wales. *J Gemm*, 17, 2, 1980, p 95-119, 8 figs, 2 refs.

BROWN, CHARLES BARRINGTON(1839-1917) & JUDD, JOHN WESLEY(1840-1916)

J W Judd b Portsmouth, Engl; educ Roy Sch Mines, LLD; to Geol Survey Engl & Wales 1867-70; prof geol Roy Coll Sci London 1876-1905, dean 1895-1905; F Roy Soc; works on geol, esp edit of Lyell's Students *Manual.*

957. -----1896 V. The rubies of Burma and associated minerals: their mode of occurrence, origin, and metamorphoses. A contribution to the history of corundum. *Phil Trans Roy Soc London*, ser A, for 1896, 187, p 151-228, pl 6, 22 fig. Also separate. JSL. Authoritative, highly detailed study of the geology & mineralogy of the ruby-mining tract centered on Mogok, Upper Burma. Introduction: sketch of mineralogical knowledge of corundum, type deposits, useful review previous references to ruby in Burma. Text: geography, phys features, geol structures, economics of mining, petrology & mineralogy. Of particular interest to the gemologist: chs on geology, mineralogy, and mining, esp mineralogy in which much is given on the ruby and its associated minerals. Establishes the fact that alluvial rubies derived from decay of host rock(marble). Abstr in *Proc Roy Soc*, London, 57, 1897(?), p 387-94, also sep in print wrap.

BROWN, C B, see AMERICAN PROSPECTING AND MINING CO.

958. BROWN, G & MOULE, A J The structural characteristics of elephant ivory. *Austral Gemm* 13, 1, 1977, p 13-7, 13 figs; 2, p 47-9, 51-5, 57-60; 14 figs, refs.

959. BROWN, GRAHAME Australia's first emeralds. *J Gemm* 19, 4, 1984, p 320- 35, 22 col photos, 2 maps. History of emerald mining in New South Wales, chronology, geology, mineralogy, emerald features, etc, with many inclusion photos; 25 refs.

960. BROWN, JOHN COGGIN(1884-) India's mineral wealth. Vol IV of India of To-day, London: H.Milford, Oxford Univ Press, 1923. 121 p, 18 1/2 cm; LC 24-31189; not seen.

961. ----- 1936, 2nd edit but not so stated

India's | Mineral Wealth | A Guide to the Occurrences and Economics | of the Useful Minerals of the | Indian Empire | By | J.Coggin Brown, O.B.E., D.Sc. | Superintendent Of The Geological Survey Of India, Fellow Of | The Geological Society, Fellow Of The Asiatic Society | Of Bengal, Member Of The Institution Of | Mining And Metallurgy | Humphrey Milford | Oxford University Press | London New York Melbourne Toronto | Bombay Calcutta Madras | 1936

8°: x, 335, [1 blank]p; 6 glossy photo pls tip-ins (Plate 1 front); 6 fold glossy maps tip-ins; 21 graphs; 37 tabs (Tab 1 fold, bound-in). Dk blue cloth, gilt spine title. 21.8 x 14.1 cm(8 1/2 x 5 1/2 in). Cut. LC 37-8388. JSL.

Cont: 1/2tp; pl; tp; print data; tab cont; ill lists; introd; 14 chs in 4 pts; Append I(biblio, p 311-9, 137 entries, 21 on gemstones); Append II (min prod stats); index; blank p.

In four parts: fuels, metals & ores, useful minerals, and gemstones, this last part comprising chs 13 & 14, p 283-308 and treating aquamarine, chrysoberyl, phenakite, euclase, diamond, fibrolite, garnet, iolite, kyanite, peridot, ruby, sapphire, spinel, topaz, danburite, tourmaline, jacinth, and in the second chapter, quartzes, feldspars, amber, apatite, bowenite, epidote, jadeite, lapis lazuli, and rhodonite. Photo plate 8 shows miners digging for amber in Burma. Rev L J Spencer, *Min Mag*, 24, 155, 1936, p 340.

962. -----1955, 2nd edit with DEY, A K

India's | Mineral Wealth |... | of the Useful Minerals of | India, Pakistan and Burma | By | J.Coggin Brown, O.B.E., D.Sc., M.I.M.M. | Superintendent, Geological Survey of India(retired) | And | A.K.Dey, Ph.D, B.Sc., D.I.C. |

Superintending Geologist, Geological Survey of India | [logo] | Geoffrey Cumberledge | Oxford University Press [Bombay, 1955]

8°: xxiv, 761, [3 blank]p; glossy front photo pl tip-in; 12 maps, some fold, some in text; 7 glossy photo pls tip-ins; 24 graphs. Pale gray cloth, white flecked; gold lett & rules on spine. 21.4 x 14 cm (8 1/2 x 5 1/2 in). Cut. Te pink flecked. LC 56-13767. JSL.

Cont: 1/2tp; pl; tp; publ data; tab cont; ill list; tabs list; introd; 5 text parts; append; biblio(p 707-27, several hundred entries); index.

Ch 15, p 575-608, provides a brief but excellent summary of the history of gemstones in India with reference to ancient Sanskrit writings, and followed by descriptions, sources, etc of diamond, ruby, sapphire, spinel, topaz, tourmaline, zircon, beryls, chrysoberyl, garnet, iolite, kyanite, and peridot. Ch 16, p 609-20, treats the less common gemstones as andalusite, apatite, axinite, danburite, diopside, enstatite, epidote, euclase, fibrolite, hambergite, lazulite, phenakite, rutile, scapolite, sphene, and staurolite. Ch 17, p 621-43 treats semiprecious and decorative stones: chalcedonic quartzes, opal, rock crystal, feldspars, amber, apophyllite, bowenite, diopside(massive), fluorite, idocrase, jadeite, lazurite(lapis), prehnite, piemontite, rhodonite, sodalite, thulite, turquoise, and zoisite. Many of the rare or unusual gemstones mentioned are actually of little importance; references for compilation of this part are on p 724-6.

963. -----1924 A geographical classification of the mineral deposits of Burma. *Rec Geol Survey India*, Calcutta, 56, pt 1, 1924, p 65-108, Plate 1(fold geol map index). Seven regions, geology of each, significant mineral occurrences; included are jadeite, Mogok mining district, Mong Long tourmaline, and amber.

964. -----1927

Confidential] | [double rule] | Gem Mining | In The | Mogok Stone Tract of Upper Burma | From the Annexation to the Present Time | (With some Suggestions for Future Operations) | By | J Coggin Brown, O.B.E., DSc., M.I.M.M. | Superintendent, Geological Survey of India | [double rule] | Rangoon: Office Of The Superintendent, Govt. Printing And Stationery, Burma. Sept., 1927. [Title from wrap]

4°: [1], [1 blank], 35, [1 blank]p; edgesewn. Pale purplish-pink wrap, title on cover. 33.2 x 20.8 cm(13 1/8 x 8 1/4 in). Cut. JSL.

Cont: tab cont; text; appends.

Annexation of the tract occurred in 1886, and in 1887 the basic regulations governing mining in the Mogok ruby tract were issued, with the first lessee being Messrs Streeter & Co of London. The present report, full of carefully researched historical detail of prior mining, and replete with names, events, statistics, etc, reviews the entire recent span of mining from 1887 to the date of the report in 1927. This is done by describing events during the three leases in the period 1889 to 1904, under which the Burma Ruby Mines, Ltd operated. Also included is the "Supplementary Agreement of 1912," and an account of the final failure which led to liquidation of the company in 1925. The causes of failure, including mismanagement by the lessee, are described frankly and recommendations given that could be adopted by any firm wishing to try their hand at mining at Mogok in the future using "European" methods. Rare, no doubt due to the security classification given.

965. -----1956-1958 Sapphires of India and Kashmir. *Gemm*, London, 25, no 298, 1956, p 77-80, ill; 299, 97-100, ill; 300, 129-32, with "Sapphires of Burma," 27, no 318, 1958, p 1-6, ill; 319, 24-7; 320, 41-4.

BROWN, MARY LORETTA THERESA

U S A poet, short story writer, book reviewer; vice-pres public relations firm(from dj).

966. -----1971

Gems | For The Taking | [3 orns] | Mine Your Own Treasure | Mary L.T.Brown | [orn] | The Macmillan Company, New York, New York | Collier-Macmillan Ltd., London [1971; title in double-rule frame]

16°: edge-sewn sections: p [3] [sic]-193 + [1 blank]p. Dk maroon unfin cloth; gold lett, rules spine. Col dj, resume, vita. 20.8 x 14 cm(8 1/4 x 5 1/2 in). Cut. $5.95. LC 70-130945. JSL.

Cont: 1/2tp; tp; publ data; ackn; dedic; tab cont; 32 chs; blank p.

Highly informal, enthusiastic prose, containing a potpourri of information and misinformation on where the general public can go to dig gemstones. The first 9 chapters tell about her adventures in the Cowee Creek, North Carolina "ruby" mines; following chapters take up possible field trips for diamond, emerald, pearl, opal, garnet, and many other gemstones, and with chapters on what to do with gemstones once they are found, birthstones, and other topics of general nature. All of the information is necessarily shallow and there are many omissions and errors. Several reviews reflect its poor quality, eg, R M Pearl, *Earth Science*, 25, 4, 1972, p 211, "this is probably the worst book on gems ever written..." Si Frazier, *Jeweler/Gem Business*, 7, 2, 1982, p 36,upon issue of the paperback(see below): "singularly ill-informed book..."

967. -----1978, paper

Gems | For The Taking |... | Mary L.T.Brown | Collier Books | A Division of Macmillan Publishing Co., Inc. | New York | Collier Macmillan Publishers | London [1978]

Cementb: pag same; stiff, col wrap, red & white title on cover; resume back cover. 20.8 x 13.9 cm(8 1/4 x 5 1/2 in). Cut. $2.95. LC 77-17598; ISBN 0-02-097320-9. JSL.

Preface claims this to be a second edition when in fact it is an identical reprint.

968. BROWN, RAYMOND P

Fundamentals | for the | Retail Jeweller | by | Raymond P Brown, G.J. | published by | The Canadian Jewellers Institute [Toronto, 1956]

16°: xii, 387, [1 blank]p; tip-in glossy front pl; tip-in fold col pl; ca 70 figs. Dk blue cloth, gold title in frame on cover; gold lett spine. Blue dj; titles on cover & spine. 20.3 x 14.1 cm(8 x 5 1/2 in). Cut. Lett slip, yellow paper, tip-in at p 53; ills credits slip pasted in at page v. JSL.

Cont: 1/2tp; pl; tp; publ data; ackn & credits slip; pref; tab cont; text; blank p.

Extremely thorough, simply written explanation of materials, processes, products, etc, that the jeweler will meet in the course of business along with regulations governing sales and instructions on how to conduct a jewelry business. A general chapter on gemstones, p 30-49, forms a short course in gemology while another, p 50-73, is on diamonds, and p 74-91 is on colored stones. Color frontispiece shows stylized standard birthstones.

969. BROWN, RICHARD S, Jr, *compiler*, GORDON, AUSTIN J, *editor*

Handbook Of | Planetary | Gemology | Translations of ancient Sanskrit texts on gemology, | the astrological characteristics of gems, | their talismanic powers, gemological properties, | present-day mining sources, and more. | Compiled by Richard S.Brown, Jr. | Edited by | Austin J.Gordon [San Juan Capistrano, CA: Navaratna Gems & Jewelry, 1983]

Cementb: [4], iii, [1 blank], 75, [1] blank]p; 4 text photos. White glossy wrap, blue, framed panel front cover with white title. 27.9 x 21.6 cm(11 x 8 1/2 in). Cut. Pale tan text paper; dk brown ink. $10.00. JSL.

Cont: tp; publ data; tab cont; dedic; pref; introd; 15 chs; gloss(p 74, 25 terms); blank p.

It is the purpose of this work to present translations of chapters 68-80 of the sanskrit *Garuda Purana* which "elaborately describes the supernatural origin of gems and their mineralogical properties," and the *Graha-gocara Jyautisha*, which "gives complete information on the astrological characteristics and effects of the principal gemstones," the latter "explains how auspicious gems help remove obstructions in various areas of life by appeasing planets that are having unfavorable effects." The first 13 chs treat planetary gems by providing summary translations of relevant *Garuda Purana* texts concerning ruby, pearl, yellow sapphire, hessonite, emerald, diamond, cat's-eye chrysoberyl, blue sapphire, coral, red garnet, jade(the authors include jadeite!), rock crystal, and bloodstone. The "secondary" planetary gemstones, or "uparatnas," are not referred to specific text parts and hence the source of this information is unclear. These stones are red spinel, moonstone, yellow topaz, citrine, hyacinth, peridot, tsavorite, green tourmaline, white zircon, turquoise, goshenite, amethyst, apatite cat's-eye, blue spinel, tanzanite, lapis lazuli, and carnelian, but tsavorite, goshenite, and tanzanite were not known to the ancients and one must suppose that these were gratuitously included by the authors. Gemstone descriptions contain properties and modern sources. There is no bibliography. A valuable feature is the provision of alternative sanskrit names for gemstones.

970. BROWN, ROLAND WILBUR(1893-1961) Plantlike features in thunder-eggs and geodes. *Ann Rpt Smithson Inst 1956*, Wash, 1957, p 329-39, 20 fig on 6 photo pls. Also sep in green print wrap. Describes, discusses such features, many examples depicted, and the firmly-held belief of Frank L Hess, and others, that such inclusions were originally plants; suggests mode or origin for same. Mem of Brown in *GSA Bull*, 74, 1963, p 79-83.

971. BRUCE, GEORGE A The rarer gems. *Lap J*, 11, 5, 1957, p 572-89, *passim*, no 6, 1958, p 684, 686-700.

972. -----1958 Pseudo-tektites and Other silica glasses. *Lap J*, 12, 4, 1958, p 510-25, *passim*, 13 refs.

973. BRÜCKL, KARL Die Minerallagerstätten von Östafghanistan. Versuch einer Gliederung nach genetischen Gesichtspunkten. *N Jb Min*, B-Bd 72, Abt A, 1936, H 1, p 1-97, 7 pls, 19 figs. Mineral deposits in East Afghanistan: granitic pegmatites with gem beryl, also ruby deposits in marble of Jagdallak, but most space on lapis lazuli of Serr-i-Sang [sic], upper Kokcha Valley, Badakhshan. Local geol, mining, origin of deposit.

BRÜCKMANN, URBAN FRIEDERICH BENEDICT (1723-1812)

Ger physician; b Wolfenbüttel; court physician to Duke of Brunswick; prof anatomy and son of the famous Franz Ernst Brückmann, writer of *Magnalia Dei in Subterraneis*, etc. In addition to works below, B was a prolific writer of articles for such journals as *Crell's Annalen, Crell's Beiträge, Voigt's Magazin, Baldinger's Magazin*, etc. Erudite, expert mineralogist, gemologist; it is probable that the extensive mineralogical/gemological books in library of Wolfenbüttel, sold at auction in the 1980's, were assembled in part by him. Pogg I, p 313.

974. -----1757

U.F.B.Brückmanns, | der A.W. Doctors, | Herzogl.Braunschw. Hofmedicus und Professors | bey der Anatomie, | Abhandlung | von | Edelsteinen, | nebst | einer Beschreibung | des so gegannten | Salzthalischen Steins. | [woodcut orn] | [orn rule] | Braunschweig, | verlegts die Fürstl. Waysenhausbuchhandlung. | 1757.

8°: 143, [1 blank], [8]p; A-J^{8},)(^{4}; ch orns, inits. 18.5 x 11.2 cm(7 1/4 x 4 3/8 in). Cropped. USGS GS 34-584; JSL; Ward & Carozzi 356; Dewalque 92; Agassiz I, 457.

Cont: tp; pref; general classif gemstones; tab cont; text in 4 sects(39 chs); blank p; index.

Indefatigable in both research in the literature and in the personal examination of gemstones, minerals, and fossils, Brückmann here began a work that was destined to grow into a second edition, with augmentations, until it became a large and important treatise. It is not a formal gemological treatise but rather the record of his personal observations on gemstones in which are incorporated numerous quotations and citations of the opinions of others, eg, well-known European contemporaries. As such, it provides an invaluable "status report" on gemological knowledge at the time. Published at the press of the Brunswick ducal orphanage, his *Abhandlung* was printed in very small number with the result that copies of all editions are scarce and of the first edition, rare. This edition is notable for its numerous handsome woodcut ornaments and initials.

Brückmann conceived a scheme in which gemstones were placed into categories of "quartz-like," "metallic," and "limestone-like" substances, but the actual scheme adopted in the text treats them largely as quartz-like materials and further classified according to glassy fracture and transparency, glassy fracture but only translucent or opaque, rough-fractured and not glass-like in luster on fracture surfaces, and lastly, those which are not quartz-like. Thus in the first section of text are met his observations on diamond, silica stones, rock crystal, topaz, chrysolite, prase, chrysoprase, zircon, ruby, garnet, amethyst, sapphire, emerald, emerald-prase, beryl and golden beryl, in that order,


Urban Friederich Benedict
Brückmanns,
der Arzeneywiſſenſchaft Doctor und Herzogl. Braun-
ſchweigiſchen Leibmedicus,
Abhandlung
von
Edelſteinen.
Zweyte verbeſſerte und vermehrte
Auflage.
Braunſchweig,
im Verlag der Fürſtl. Waysenhaus-Buchhandlung
1773.

975. Second edition titlepage of Brückmann' enormous compilation of current gemological information

which is to say in an order that reflected the contemporary lack of knowledge as to the true mineralogical relationships among certain families of minerals. The second section treats opal, chalcedonies, and others, including the mysterious "Weltauge" or hydrophane opal, the "Augenstein" or "eye-stone," agates displaying circular patterns, and the "Lyncur" or lyncurion which Brückmann notes was identified as amber by some but which he deems to be some sort of siliceous stone. The third section confines itself to jaspers and porphyries. The final section, a catch-all, treats lapis lazuli, the Armenian stone (azurite or some other copper mineral), malachite, marcasite, turquoise, "snake eyes" (identified as fossil molar teeth), "swallow-stones," or shark's teeth, "star stones," or fossil coral, and the "Nanniester gestreiften Stein", claimed to be a "new" gemstone discovered in 1752 in Moravia and apparently a quartz variety. Lastly there is a short essay on a curious ornamental stone of Brunswick which appears to be dendritic limestone.

Lest the reader of these lines gain the impression that Brückmann included some of the curious stones mentioned above because of a belief in their occult or magical powers, he did so only to properly identify them and actually to discredit superstitions which even at that late date surrounded them. His descriptions not only provide such scientific information as he could gather, and comments on them by other authorities, but also describe his own tests that he conducted to personally satisfy himself as to identity. As a descriptive gemology, the present work, in its final version, was the most important treatise to appear in print since the last edition of De Boodt's *Gemmarum*, 1647, and was not superseded until the appearance of C P Brard's *Traité des Pierres Précieuses*, 1808. It is no credit to modern German students of gemological history that Brückmann remains virtually neglected.

975. -----1773, 2nd edit

Urban Friederich Benedict | Brückmanns, | der Arzneywissenschaft Doctor und Herzogl. Braun= | schweigischen Leibmedicus, | Abhandlung | von | Edelsteinen. | [engrav vignette, a rearing horse] | [rule] | Zweyte verbesserte und vermehrte | Auflage. | [double rule] | Braunschweig, | im Verlag der Fürstl. Waysenhaus=Buchandlung | 1773.

8°: 415, [1 blank]p, all pages before 16 unnumb; A-Cc^{8}; same vignette on all subsequent editions. 19 x 11.5 cm(7 1/2 x 4 1/2 in). Cropped. JSL; USGS GS 17-308; Dewalque 92.

Cont: tp; dedic; pref; classif scheme; remarks; 9 chs; append; index; errata; blank p.

Enormously enlarged: amplifies previous remarks but introduces many new stones, and with a most valuable appendix, p 359-88, concerning the "largely unknown so-called gemstones" of older writers, becoming, in effect, a glossary of same as employed by Pliny and Boetius De Boodt, among others. This glossary is unique and deserves to be translated with an interpretation in the light of modern knowledge; there are hundreds of terms and I know of no other place in the literature where a similar glossary of ancient gemological/mineralogical terms exists. Other major differences: expands classification scheme to include new categories of gemstones and ornamental stones, eg, a ch on granites, another on stones that are "hardened by fire," namely nephrite and serpentine, amorphous gemstones (opal-like materials), new "metallic" category that now includes lapis-lazuli, Armenian stone, malachite and marcasite, "petrifications of the animal kingdom" which includes turquoise, shark teeth, coral, and the like, and lastly, the dendritic "Nannierstein" of the first edition is placed in its own category of "sandstone-like" materials. In the 16-years interval since the first edition, Brückmann had not been idle, and in fact, as seen in the text comments, he carried on a lively correspondence with mineralogists all over Europe, paid visits to many to view their collections, visited museums, and otherwise steadily accumulated a vast fund of information which he distilled into this second edition. However, rather than producing new editions to succeed the present one, Brückmann decided to publish a series of addenda or contributions(Beiträge) instead, as given below.

976. -----1778, contrib to 2nd edit

Urban Friederich Benedict Brückmanns, | der Arzneywissenschaft Doctors, Herzogl. Braunschw. | Leibarztes, Canonicus bey dem Stifte St. Blasius zu | Braunschweig, und Mitgliedes der Gesellschaft | Naturforschender Freunde zu Berlin, | gesammlete und eigene | Beyträge | zu seiner | Abhandlung | von |

Edelsteinen. | [same vignette] | [rule] | Braunschweig, | in der Fürstl. Waisenhaus=Buchhandlung. 1778.

8°: [8], 252, [4]p; *⁴, A-P⁸, Q-R⁴. 19 x 11.5 cm(7 1/2 x 4 1/2 in). Cropped. Ch orns, inits. JSL.

Cont: tp; pref; text; contrib to append; index.

Greatly expands the basic work, incorporates many citations from pertinent comtemporary literature, and gives results of personal experimentation on gemstones. First section treats generalities and comments on new methods of chemical analysis; also reviews important recent additions to gemological/mineralogical knowledge. The text now also contains much on the synthesis of minerals and gemstones, manufacture of imitations and falsifications, how they can be detected, a historical note of lapidary work, and adds much new material and locality information to all previous parts as well as introducing new gemstones.

977. -----1783, 2nd contrib

Urban Friederich Benedict Brückmanns, | der Arzneywissenschaft Doctors, Herzogl.Braunschw. Leibmedicus, | Canonicus des Stifts St. Blasius, Mitglied der Kayserl. Akade= | mie der Naturforscher, und der Gesellschaft Naturforschender | Freunde zu Berlin, | ... | Edelsteinen. | [new vignette, woodcut, baroque design] | Zwote Fortsetzung. | [rule] | Braunschweig, | in der Fürstl. Waisenhaus=Buchhandlung. 1783.

8°: 250, [5], [1 blank]p; all pages before 10 unnumb; A-Q⁸; woodcut ch orns. 19 x 11.5 cm(7 1/2 x 4 1/2 in). Cropped. USGS GS 17-308; JSL.

Cont: tp; dedic; pref; text; index; errata; blank p.

Further notes on recent improved chemical analyses by Bergman, Meyer, Macquer and others, more on synthetics & falsifications, lapidary work, etc. The last in this series.

978. -----1792 Anmerkungen über den Aquamarin, oder Beryll und Topas, auch andere Edelsteine betreffend. *Beobachtungen u Entdeckungen aus der Naturkunde von der Ges Naturforschender Freunde zu Berlin*, 4, 1792, p 6-34, 284-6; not seen, from Banks catalog.

979. -----1801 Ueber den Sarder, Onyx und Sardonyx. Braunschweig: 1801. 140 p. Not seen.

980. -----1804

Urb. Friedr. Bened. Brückmanns | der Arzneywissenschaft Doctors, Herzogl. Braunschweig, ersten | Leibarztes, Kanonikus des Stifts St.Blasius zu Braunschweig, und | Mitglied verschiedener gelehrten Gesellschaften | Nachtrag | über den | Sarder, Onyx | und Sardonyx. | [rule] | Braunschweig, 1804 | gedruckt bei Friedrich Vieweg.

8°: 140, [2]p. 20.8 x 11.8 cm(8 1/8 x 4 5/8 in). Cropped. BM(NH); USGS GS 33-208.

Cont: tp; text; corrigenda.

Brückmann's small work on sard, onyx and sardonyx of 1801 was devastatingly criticized by H C E von Köhler in his 1802 *Antwort auf die Einwürfe gegen die Untersuchung über den Sard, den Onyx und den Sardonyx der Alten*, Leipzig, which see, and in this present work Brückmann replies sharply, pointing out the unjust criticisms of Köhler. The entire paper is a page-by-page rebuttal, up to p 119, with an appendix, p 120-6, plus another on press errors, additions, and corrections, p 127-31, and two more appendices on the origin of "giacinto guarnaccino" and "velo turchino," p 132-8, and lastly a final "Nachtrag," p 139-40. All of it is a tempest in a teapot, based as it is on speculation by both authors as to what the ancients meant by the terms.

BRÜCKMANN, U F B, see MARBOD, 1740; also STELLA, 1736.

981. BRUET, EDMOND

Bibliothèque Scientifique | [rule] | Edmond Bruet | Géophysicien a l'Institut de physique du Globe de Paris | Membre du Comité National de Géodésie et de Géophysique | et de l'American Geophysical Union | [rule] | Le Diamant | Histoire - Cristallographie - Performances | Esthétiques - Taille - Gisements - Prospection | Essai De Reproduction Synthétique - Origine | Naturelle | [rule] | Avec 11 croquis et 9 photographies de l'auteur | [logo] | Payot, Paris | 106, Boulevard Saint-Germain | [rule] | 1952 | Tous droits de traduction, de reproduction et d'adaptation | réservés pour tous pays.

8°: 356 p; 11 figs; 8 photos on 4 glossy tip-in f + photo on cover of wrap which is included in total. Tan paper wrap, blue title, rules on cover, the photo in reddish tones; blue lett, rules spine; other publ bks back cover. 22.8 x 14.2 cm(9 x 5 5/8 in). Uncut; paper browned, embrittled. Fr 800. LC 52-2802. JSL.

Cont: blank p; other author bks; tp; introd; tab cont; 19 chs; conclusions; prod stats; biblio(p 253-4, 25 entries); tab of pls; index.

A comprehensive monograph on the diamond: history, crystal structure, crystallography, mineral associates of, esp in alluvial deposits, next, and curiously out of place, two chs on diamond in jewelry and industry and its cutting, followed by diamond deposits, with an entire ch devoted to those in French Equatorial Africa and alluvial deposits outside Africa. There are also chs on diamond in Canyon Diablo meteorite, origin of diamond, synthesis, transport of diamond to the surface from profound depths, and pipe bodies as type of volcano. photos show diamond mining in French Equatorial Africa. Biblio omits "general" works and includes only technical/scientific treatises, several of which bear on diamond genesis. Rev: *Nature*, 172, 1953, p 269.

982. BRÜHL, LUDWIG Neuere Untersuchungen ueber Perl-Muscheln und Perlen. *Deutsche Fisch Zeitung*, Bremerhaven, 12, 1909, p 1-16; not seen, from G Ranson bibliogr.

983. -----1925

[rule] | Meereskunde · Heft 166 · Band XIV, 10 | [rule] | Bernstein, | Das | "Gold Des Nordens" | Von | Professor Dr. Ludwig Brühl | [logo] | [rule] | Verlegt Bei E.S.Mittler & Sohn · Berlin | [rule]

Above from wrap; series tp gives *Meereskunde, Sammlung Volkstumlicher Vorträge Zum Verständnis Der Nationalen Bedeutung Von Meer Und Seewesen*, herausgegeben vom Institut für Meereskunde zu Berlin, unter Schriftleitung von Walter Stahlberg.

Centerstapled: 34, [5]p, 18 figs(includes map). Pale gray print wrap, cover title; adverts. 22.9 x 15 cm(9 x 5 7/8 in). Cut. JSL.

Cont: text; advert; ser tp; publ data; cont of vol; blank p.

Excellent!; short but comprehensive article on Prussian amber

chiefly valuable for its historical review of amber and the state of the amber industry. Detailed rev by K Andreé, *Bernstein-Forsch*, 1, 1929, p 142.

984. -----1929 Molluskenschalen als Schmuck und Gerät (unter Ausschluss von von Perlmutter und Perlen). *Die Rohstoffe des Tierreichs*, Berlin, 1929, v 2, p 161-263. Not seen, from G Ranson biblio.

985. BRUN, A Sur les péridots collectionnés de 1900 a 1906 dans l'Ile de Zeberget (Mer Rouge) et appartenant à M.Ch.Haccius, a Genève. *Compte Rendu des Seances de la Société de Physique et d'Histoire Naturelle de Genève*, 38, 1921, p 13-17, Not seen; on peridots collected on St John Island in the Red Sea.

BRUN-DALBANNE, LE, see LE BRUN-DALBANNE

986. Unused

987. BRUNN, HEINRICH VON(1822-1894) Geschichte der Griechischen Künstler. Brunswick, 1859, 2 vols.

P 444-637 of vol 2 deal with gem engravers; new edit, 1889, p 303-433 of vol 2 same; not seen. Concerning the first edition, C W King, *Antique Gems and Rings*, 1872, vol 1, p 463, states "contains a section upon inscribed gems, in which all the supposed "artists' signatures" ever published are critically examined with much accuracy and intelligence." Goodland p 88.

988. BRÜNNECK, WILHELM VON Das Bernstein-Regal. *Altpreussische Monatschrift*, Königsberg, 11, 1874, p 129-55; not seen.

989. -----1874 Das Recht auf Zueignung der von der See ausgeworfenen oder angespülten Meeres-Producte und das Bernstein-Regal. Königsberg: Koch, 1874, vi, 90 p, 8vo; not seen.

990. BRUNNER, HERBERT

The Treasury | in the Residenz | Munich | Compiled by H.Brunner | 1967 | BayerischeVerwaltung der staatlichen Schlösser, | Gärten und Seen

"Translated by M.D.Senft-Howie."

Edgestapled: 65, [2], [1 blank]p; 12 photos on both sides of 6 bound-in glossy f. Thick white glossy wrap, photo & title on cover. 20 x 13 cm (7 7/8 x 5 1/8 in). Cut. JSL.

Cont: tp; publ data; pref; catalog by rooms; tab cont; plates tp; plates.

Short catalog-guide giving essentials about the splendid jeweled objects of art and ornament displayed in the 10 rooms of the Residenz Palace Museum in Munich, Germany, wherein are housed the accumulated treasures of the Wittelsbach Family, past rulers of Bavaria. A large number of the items are made wholly or in part from gemstones and are among the finest of their kind. See following for a similar guide in German; there may be others in other languages not seen. For a larger and more detailed catalog, see THOMA, HANS & BRUNNER, HERBERT, 1964.

991. -----1968

Herbert Brunner | Schatzkammer | Der Residenz München | Aufnahmen von | Claus und Liselotte Hansmann | [logo] | Hirmer Verlag München [1968]

"Sonderdruck aus dem Band Schatzkammern Europas, Weltliche Schatzkammern, Herausgegeben von Erich Steingräber."

8°: 15, [1]p; 15 photos on both sides of 8 glossy f bound-in; 4 text figs. Plain white wrap, plastic-cover, inward fold flaps, black, with col photo of the St.George & dragon statuette; black spine; plain white back cover. 30.7 x 27.8 cm(12 3/8 x 11 in). Cut. JSL.

Separate from Steingräber's 1968 work, which see, and sold at the museum.

BRUNNER, H , see STEINGRABER, E , 1968; also THOMA, H , 1964.

992. BRUNO, VINCENZO I tre dialoghi. Nel primo... tratta delle Tarantole. Nel secundo... del vivere, e del Morire. Nel terzo delle Pietre preziose, e de Semplici ... Napoli,1602, pp (XXII), 428, (18), (1), 4°; woodcut on titlep. Not seen: from Wheldon & Wesley Catalogue N.S. 166, 1984, no 118 & Piani, Bologna, catalogue March, 1986, no 90. Hoover finding-list gave source as Gatterer II, 24.

993. BRUNS, GERDA Staatskameen des 4 Jahrhunderts nach Christi Geburt. Berlin, 1948, 34 p, 27 ills, wrap, 31 x 23.5 cm. Not seen: from Thomas Heneage Catalogue 4, 39, 1985.

BRUNSWICK-LUNEBURG, KARL FRIEDRICH AUGUST WILHELM, Duke of(1804-1873)

Duke 1815-30; reigned 1823- but proved unpopular and forced to surrender control in 1830, retiring to Geneva.

994. -----1874, anonymous

Catalogue | De | Brillants Et Autres Pierres Précieuses | De Son Altesse Monseigneur | Le Duc Souverain De Brunswick-Lunebourg, Etc., Etc., | Avec Énumération Des Plus Grandes Diamants Existants, | D'Après Leur Valeur. | [orn] | En Vente | Chez Chauvet, Bijoutier, | Rue Neuve-Des- Capucines, 30, | Paris. [title enclosed in elaborate, scrolled frame; printer's name at bottom; nd, post 1860]

4°: 268 p; 2 tip-in litho pls. Dull purple, pebbled cloth, the Ducal arms, honors, etc on color cut-out pasted to front cover within a gold & colored ornamental frame and outer blind frames; similar frames back cover. Cloth usually faded to pale brown. Bright yellow glossy endp. 25.3 x 20.4 cm(10 x 8 in). Aeg. USGS Kunz Coll GS 34-848; JSL.

Cont: blank guard leaf; tp; catalog; essay on famous diamonds; guard.

Remarkable and beautiful sales catalog of the diamonds and other precious stones belonging to the Duke. The first part is the catalog listing gems by date of acquisition in chronological order and giving vendor name, date, designation of stone(s), carat weight, cut, color, and other description, and price in francs. Several hundred items are listed from p 2 to p 244. Beginning on p 244 is an essay on large and important

diamonds "still in existence," prefaced by a discussion of diamonds in general, their properties, cutting styles, sources, etc, followed by brief histories of Koh-I-Noor, Matara, Grand Mogul, Regent, Orlov, Grand Duke of Tuscany, Piggott, Nassak, Shah, Sancy, and Polar Star. Sixteen of these are shown in actual size sketches upon the plates. Interestingly, values for these are given in francs. Rare.

995. -----1874, anonymous

Catalogue | Des | Diamants | Saphirs, Émeraudes, Rubis, | Bijoux, Argenterie | Provenant De Feu | S.A.R. Le Duc Charles De Brunswick | Vente Aux Enchères Publiques | A Genève | Le Mercredi 22 Avril 1874 | Et Jours Suivants De A 5 Heures | [rule] | Exposition | Les 17, 18, 20 Et 21 Avril 1874 | [double rule] | Experts: MM. Rossel & Fils, Joailliers- Bijoutiers | 12, Rue De Rhone | chargés de recevoir toutes offres et de donner tous reseignements. | [orn rule] | Genève, 1974

8°: 31, [1 blank]p. Tan wrap, title in red, black, pale brown on cover in pale brown orn frame; agents list back cover in similar frame. 26 x 17.1 cm(10 1/4 x 6 3/4 in). Cut. USGS Kunz Coll.

Cont: tp; sales cond; catalog of 275 lots.

996. BRUSIUS, HEDY Edelsteine Bringen Glück. Genf: Ariston Verlag, 1975. Not seen.

997. -----1982

Hedy Brusius | Edelsteine | Bringen Glück | Von Glücksteinen, Heilsteinen, | Wertsteinen | und ihrer Strahlenwirkkraft | Mit 16 Farbtafeln | 20 Schwarzweissabbildungen | und 4 Tabellen | [logo] | Ariston Verlag · Genf [1982; p [4]: Zweite Auflage 1982]

Cementb: 243, [1 blank], [1], [1 blank]p; 20 b&w ills(includes 7 facsimile pages from a herbal(Cuba?), many alchemical-type symbols for gemstones and several metals, cutting styles, & crystal forms); 20 col photos on both sides 8 glossy f not includ in pag. Tan, leather-like paper over bds, gold title in frame on cover; similar on spine. Vermilion dj, col photo on front; tab cont back; flap resume. 20.6 x 14.6 cm(8 1/8 x 5 3/4 in). Cut. ISBN 3 7205 1127 8. JSL.

Cont: 1/2tp; tp; publ data; tab cont & tabs list; text; property tabs; blank p; advert; blank p; advert.

A fascinating potpourri of gemological curious lore, much of it ordinarily inaccessible, eg, poems on gemstones by Goethe and others, anecdotes, historical events concerning gemstones, and many other bits of information that remind one of the similar lore found in works of G F Kunz. There is a personal story involving precious opals, tales of adventure involving famous diamonds, sapphires and emerald, the lore of zodiacal stones, views of philosophers on the origin and nature of gemstones, and including extracts from Wolfram von Eschenbach, Dante, Konrad von Megenberg, Otto Conradt, etc. Other sections deal with the healing powers attributed to gemstones, magic, and describe many of the species. The information is authoritative but unfortunately there is no documentation whatsoever and not a single reference!

BRUTON, ERIC

Brit writer, journalist; many years editor *The Gemmologist*, London and several years, *Industrial Diamond Review*; F G A ; founded trade newspaper *Retail Jeweller* and its editor & publisher.

998. -----1961

The True Book About | Diamonds | by | Eric Bruton | Illustrated by | N.G.Wilson | Frederick Muller Limited | London [1961]

At head of title: True Books | Editor: Vernon Knowles | [rule]

16°: 144 p; 28 fig. Pale red cloth-type paper bds; gold lett spine. Col dj, 5 col ill on cover; resume, advert. 18.4 x 12.2 cm(7 1/4 x 4 5/8 in). Te stained pink. Cut. £ -/8/6. JSL.

Cont: 1/2tp; series bks; tp; publ data; tab cont; ills; 12 chs.

Elementary yet accurate popular presentation of the major aspects including: discovery & mining in S Africa, cutting, use in industry, synthesis, anecdotes & smuggling, simple tests. Rev *The Gemm*, 30, 362, 1961, p 171; *J Gemm*, 8, 4, 1961, p 160-1.

999. -----1961. King Diamond. London, 1961, 192 p; a novel based on West African diamond mining; not seen.

1000 -----1970.

Diamonds | by | Eric Bruton, F.C.A. | N.A.G. Press Ltd., London [1970]

8°: xi, [1 blank], 372 p; glossy col front pl tip-in; 329 text figs (portraits, views, diagrs, maps, graphs), + 4 append phot. Black cloth, silver spine title. Col dj, col photo of diamond on cover; resume, vita. 24.8 x 15.7 cm(9 3/4 x 6 1/4 in). Cut. £ 5.00. ISBN 7198 0021 8. JSL.

Cont: 1/2tp; Marbod's poem; pl; tp; publ data; tab cont; ackn; pref; fwd by S Tolansky; 20 chs ; 4 appends; index.

The most comprehensive, higher level, popular work yet published on all aspects of the diamond; it avoids sensationalism and romance yet is replete with interesting and accurate information. The text opens with the history of the diamond enhanced by use of older illustrations and references to the diamond in early literature. Next appear several chapters on diamond sources, the great mining companies, their activities in Africa and in the Soviet Union, how diamonds are mined and recovered, and remarks on modern prospecting methods. Other chapters take up the marketing system, sorting of crystals, cutting, grading of cut stones, and evaluation/pricing. There are also chapters on the geology and mineralogy of deposits, crystallography, physical properties, synthesis, and induced coloration. A final chapter deals with identification of cut gems, while the appendices provide a note on how to fold a diamond paper, a list of the world's largest rough diamonds, another on cut stones, and a table of diamond production. Richly illustrated with many photographs of persons and places which have not been published before. References after most chapters. Rev B W Anderson *J Gemm* 12, 6, 1971, p 234-6, "has the quality and dimensions of a future classic;" *G & G*, 13, 11, 1971, p 362-3; *Austral Gemm*, 11, 3, 1971, p 28.

1001.-----1970, Reliance Diamonds reprint

Diamonds | by | Eric Bruton, F.G.A. | Limited Edition | Exclusively Reprinted for: | Reliance Diamonds | Walnut Creek, California 94596 | [logo] Masterco Press | Ann Arbor, Michigan [1970]

Same; but col pl omitted; black paper over bds; gilt lett; slight changes on cover lett, tp, etc. Paper yellowish-tan, non-glossy. Dj with changes in data. 25.3 x 16.2 cm(10 x 6 3/8 in). Cut. JSL.

1002.-----1971, Philadelphia

Diamonds | by |... | Chilton Book Company | Philadelphia New York London [1971]

Except for changes on cover, dj, tp, etc., same; $17.50; LC 76- 161622; ISBN 0-8019-5683-8; JSL. Reprinted in 1973: p [iv]: "Second printing, June 1973;" slight editorial changes; yellower, dull finish 24.7 x 15.5 cm(9 3/4 x 6 1/8 in); price same; JSL.

1003. -----1974, London reprint. Smaller: 24.8 x 15.3 cm(9 3/4 x 6 in) ; cut; whiter paper, thinner. Price now £5.8O; other reprint 1976.

1004. -----1978, 2nd edit London & Radnor

Diamonds |... | Chilton Book Company | Radnor, Pennsylvania [1978]

8°: xiv, 532, [2 blank]p; same front; 489 photos & other figs; 22 col photos on 6 bound-in glossy f; 4 unnumb photos; 2 sketch maps. Black leather-type paper over bds; gold spine title. Col dj similar. 24.8 x 15.6 cm(9 3/4 x 6 1/8 in). Cut. $25.00. LC 78-66362; ISBN 0-8019-6789-9; in Engl ISBN 0 7198 0071 4. JSL.

Cont: 1/2tp; Marbod poem; col pl; tp; publ data; tab cont; fwd; pref to this edit; pref to lst edit; ackn; 21 chs; gloss; 6 appends; index.

Scarcely any part is untouched in this revision and a great deal of information added, not to mention the incorporation of many more illustrations and the exchange of new ones for the old. There are now high-quality color photographs, mostly of scenes of contemporary diamond mining but also of rough specimens. Chapter ending references have been added to. A new chapter, Ch 20, p 446-71, is on famous diamonds and is well-illustrated. Two new appendices added, one on shapes & sizes of major diamond pipe outcrops and the other on cut diamond grading systems. An important addition is the glossary, p 495-503. Extended rev by B W Anderson *J Gemm* 16, 6, 1979, p 416-7.

1005. -----1983, Span edit

Eric Bruton | Diamantes | Traducido Por Loto Perrella | Prefacio de | S.Tolanski | [logo] | Publicacione I Edicions De La | Universitat De Barcelona | [rule] | 1983

Cementb: blank f + XVIII, 566 p + blank f; 487 text ills + 4 photos in Append 3 + 2 p of sketch maps in Append 5. White wrap, inward-fold flaps; title cover & spine; back resume; front flap with Engl title & col rd brilliant on inside which appears in front through a circular cut-out. Inside front flap vitas of Bruton & Perrella; front cover caption. 24 x 16.7 cm(9 3/8 x 6 5/8 in). ISBN 84-7528-119-2. JSL.

Cont: blank f; 1/2tp; tp; publ data; tab cont; pref; pref to 2nd edit; pref 1st edit; ackn; text; gloss; 6 appends; index; blank f.

Perrella, FGA, gemologist in University of Barcelona, and specialist in diamond. Appears to be a straightforward transl; poem on 1/2tp omitted; also front col p; on semi-glossy paper, ills less distinct; poor binding, wrap separating at spine.

1006. BRYAN, DONALD A

Invitation To Jewel Cutting | by | Donald A.Bryan

Santa Monica, CA (?), 1979 (?), privately publ.

Cementb: [8], 1, 1, 2 p + 158, [2]p; 84 figs(includes several charts). Purple wrap, white title on cover & spine. 22.9 x 15.2 cm(9 x 6 in). Cut. Price unstated. JSL. Repeats information and recasts illustrations readily available in standard and more complete handbooks and only at times introduces new ideas. The "bibliography" refers to 2 current magazines.

1007. BRYAN, KIRK Flint quarries - the sources of tools and, at the same time, the factories of the American Indian. With a consideration of the theory of the "blank" and some of the technique of flint utilization. *Papers of the Peabody Mus of Amer Archaeol and Ethnol*, Harvard U, 17, 3, 1950, sep publ, wraps, vii, 40, [4 advert]p; 31 figs, includ fig 31 on glossy tip-in f not includ in pag. 27.1 x 19.8 cm(10 5/8 x 7 3/4 in). Cut. $2.00. JSL. Describes quarries & materials in Spanish Diggings, Oklahoma, Alibates quarries in Texas, a well-known source of colorful lapidary material and the Cerro Pedernal quarry, New Mexico.

BRYANT, JACOB, see MARLBOROUGH GEMS

1008. BRYANT, PAGE

Crystals | And Their Use | A Study Of At-One-Ment | With The Mineral Kingdom | By Page Bryant | Channeled From | Albion | Illustrations By Scott Guynup | [logo] | Sun Books | Sun Publishing Company | Albuquerque [1984; 3rd reprinting 1985; entire title in single-rule frame with quartz crystals in upper corners]

Cementb: 64, [8]p; text drawings. Bright yellow wrap, cover title. 20.9 x 13.4 cm(8 1/4 x 5 1/4 in). Cut. $4.50. ISBN 0-89540-151-7.

Cont: 1/2tp; tp; publ data; dedic; ackn; tab cont; pref; text; concl; other publ bks.

How to use quartz crystals for various mental and physical healings or invigoration, and so on, with the usual mystic, nearly unintelligible jargon and obscure statements.

1009. BRYKOV, I I Poezdka v Zmeinogorskii rudnikh i Kolyvanskiyu shlifovalniyu fabriku. *Ukazatel Otktytii Po Fizika, Khimika, Estestvennye Istorya i Tekhnologiya*, Moskva, 8, 1831, p 109-32. "A trip to the Zmeinogrosk mines and the Kolyvansk lapidary works" in Siberia, from the journal "Index of Discoveries in Physics, Chemistry, Natural History, and Technology," Not seen.

1010. BUBNYS, JONAS

J.Bubnys | Gintaras | [orn] | Valstybinė | Politinės Ir Mokslinės Literatūros Leidykla | Vilnius - 1957 [Vilna, Lithuania]

8°: 121, [3]p; 22 figs; sketch map; 9 tabs. Wrap, lett. 19.3 x 12.5 cm(7 5/8 x 5 in). Cropped. 8,000 copies. Rb 2.10. JSL.

Cont: tp; pref; 3 chs with many subsects; biblio 43 entries; tab cont; publ data.

In Lithuanian gintaras is amber; first ch on ancient knowledge & history of amber, later writings mentioning amber, and recent literature in which Bubnys points out the paucity of contributions in the Lithuanian language and the fact that most of the literature is by German authors. However, he does discuss several works in Lithuanian by Daukantas and Kalvaitis. The second chapter is devoted to the scientific/technological aspects of amber, its composition, deposit geology, origin, inclusions,

mining, and commerce. The third chapter provides details on the industry in Lithuania and includes production statistics, factories, methods of working amber, individual artisans, and their works. This appears to be the definitive work in the Lithuanian language.

1011. BUCHANAN, BRIGGS

Catalogue Of Ancient | Near Eastern Seals | In The | Ashmolean Museum | Volume I | Cylinder Seals | Briggs Buchanan | Oxford | At The Clarendon Press | 1966

8°: [2 blank], xxv, [1 blank], 242, [1], [1 blank]p; 67 photo pls on both sides of 34 bound-in glossy f; 81 text figs. Dk blue cloth, gold lett, rules, logo on spine. Pale tan-gray dj, brownlett, resume. 27.8 x 21.9 cm(11 x 8 5/8 in). Cut. £ 7-7s, net. JSL.

Cont: blank f; 1/2tp; tp; publ data; tab cont; pref; ackn; pls list; abbrev(biblio p xv-xvii, 112 entries); introd; 22 chs; append; concordances; subj & site indexes; pls tp; pls.

Catalogued according to period, with each period prefaced by a concise discussion of typical motifs, styles, etc, for the culture, also special uses of the seals, details of design, with the latter sometimes amplified by text sketches, also materials used, dimensions, etc. Large variety of gemstones employed, principally serpentine, steatite, calcareous rocks, hematite, and cryptocrystalline quartzes. The plates are very good and depict about 1100 seal impressions.

1012. BUCHANAN, M S

Prospecting | For Opal | In | Australia | [orn rule underline] | by | M.S.Buchanan, B.Sc., Metallurgy(Manchester), | 144 Arden Street :: Coogee. [title in double-rule frame; Coogee in environs Sydney, NSW; nd. ca 1931]

Centerstapled: 17, [1], [2 blank]p; sketch. Pale blue print wrap. 20.7 x 13.7 cm(8 1/8 x 5 3/8 in). Cut. JSL.

Recommends that gold miners switch to opal prospecting and cites rewards to those who have done so; gives a cross-section of opal ground and how to mine it, with advice on methods, tools, etc; prod figs for certain claims at Grawin; famous stones, including those described in Kozminsky(1922), which see; use of power in mining; how to find new fields; valuation of opal. Extremely rare.

1013. BUCHER, B; BRINCKMANN, J & ILG, A, et al

Geschichte der technischen Künste. Stuttgart, 3 vol, 1875-93, ca 468 ill, 4 pls. Vol 1, Ch 6, p 271-356 is an article by H Rollet on the art of gem engraving. Not seen.

1014. BUCHESTER, K J

The Australian | Gemhunter's | Guide | [rule] | by K.J.Buchester | [rule | Ure Smith · Sydney [1965]

8°: 215, [1 blank]p; 14 fig(8 sketch maps); 20 b&w & 15 col photos on both sides of 8 bound-in glossy f. Pale blue cloth-type paper over bds; gold spine lett. Col dj, col photos, resume. Pale red endp with white outline map. 23.6 x 15.1 cm(9 1/4 x 6 in). Cut. LC 65-23902. JSL.

Cont: 1/2tp; tp; publ data; dedic; ackn; tab cont; ill list; introd; 12 chs; gem localities; description of Gemm Assoc Australia; gem ident tab; biblio(p 211-2, 28 entries); gloss; blank p.

Elementary guide, clear & factual, but so broad in scope that only a brief treatment is possible of the techniques & tools. Important Australian gemstones, eg, opal, quartz, diamond, sapphire and emerald are given detailed treatment. A list of occurrences by the Australian states on p 145-97. Photographs are mainly of cut & rough specimens but also a few scenes at the better known collecting sites; maps of the most imortant gem fields. Three impressions of this work were made in 1965 alone.

1015. -----1967

The | Australian | Amateur | Lapidary | [rule] | An Introduction to | gem-cutting | [rule] | By K.J.Buchester | [logo] | Ure Smith · Sydney · London [1967]

8°: 211, [1 blank]p; 49 b&w & 12 col photos on 16 bound-in glossy f; 48 figs. Maroon paper over bds; gold lett & logo on spine. Dull, dk pink endp. Col dj, col photos, resume. 23.5 x 15.5 cm(9 1/4 x 6 1/8 in). Cut. 55s or £ 2.75; USA $5.50. LC 66-27425. JSL.

Cont: 1/2tp; other author bk; tp; publ data; dedic; ackn; tab cont; ill list; introd; 21 chs; appends; biblio(p 193-5, 36 entries); gloss; index; blank p.

Beginners text: historical notes, nature of gemstones, faceting, cabochoning, the diamond saw, lapping, tumbling, carving, special methods, setting up shop, values of cut & rough; particularly useful appendix describes the common and unusual gemstones arranged according to their suitability for specific types of lapidary work. Clear, well-chosen illustrations. Rev *J Gemm*, 13, 8, 1973, p 330; *Austral Gemm*, 70, 1967, p 330; *G & G*, 12, 8, 1967-8, p 255-6.

1016. -----1972

[rule] | Popular Prospecting | A Guide to Australian Minerals | [rule] | by | K.J.Buchester | A.H. & A.W.Reed [logo] [Sydney, New South Wales, 1972]

8°: 211, [1]p; 48 col photos on 4 glossy bound-in f; 67 figs, 2 sketch maps. Brown, unfin cloth, orange title on spine. Brown & white dj, col photo, resume. Orange endp. 24.7 x 18.2 cm(9 3/4 x 7 1/4 in). Cut. USA $22.10. LC 72-83977; ISBN 0 589 07113 0. JSL.

Cont: 1/2tp; other author bks; tp; publ data; tab cont; ackn; introd; text; geol periods tab; gloss; biblio(p 207, 30 entries); index; publ bks.

A work of uneven quality, neither a prospecting instructional manual as such, nor a guide in sufficient detail to make it live up to its title. It attempts to familiarize readers with some scientific aspects of petrology and mineralogy, with some information on alluvial deposits, and notes on the identification of minerals. There are descriptions of ores and minerals of Australia, including ornamental and gem stones with remarks on collecting, marketing of minerals, and geological periods. There is actually little information on actual methods of prospecting and the work should have been called a popular economic mineralogy of Australia. Most material on gemstones appears in a "Prospecting for Gemstones" chapter, p 178-90, with two sketch maps of diamond fields. Rev *Austral Gemm*, 10,9, 1973, p 25.

1017. -----1972

A Treasury of | Australian Gemstones | An Introduction to gemhunting and cutting | Ure Smith · Sydney [1972]

8°: 192 p; 40 figs; 8 sketch maps; 15 b&w photos on both sides of 4 bound-in f, not includ in pag; 66 col photos on both sides of 16 bound-in f, not includ in pag. Glossy white paper over bds, col photos. 24.8 x 18.3 cm(9 3/4 x 7 1/8 in). ISBN 0 7254 0096 X. JSL.

Cont: 1/2tp; tp; publ data; tab cont; introd; 2 parts; biblio (p 182-4, 38 entries); gloss.

Much of this book combines selected portions taken from the author's *Gemhunter's Guide*, 1965, and *Amateur Lapidary*, 1967, see above; illustrations are also borrowed and the color photos are now printed on dull-finish paper.

1018. BUCHI, SYLVIA DUNCAN HALL(1929-) Studies on the natural history of beryl. Dissertation... degree of doctor of philosophy in the University of Michigan, 1961. Ann Arbor: University Microfilms, Inc. Cementb print-out, [1 blank], [3] f + ix, 170, [1 blank]f; 39 tabs; 39 figs. Wrap, title label. 22 x 17 cm(8 5/8 x 6 5/8 in). Cut. JSL. Geology, parageneses, crystal chemistry, spectroscopy & results, biblio p 159-70, ca 130 entries; contains information useful in part to the gemologist.

BÜCHNER, JOHANN GOTTFRIED

Prolific Saxony author, publ works on agriculture & natural hist. *Biogr Univ*, 6, p 204, without vital data given.

1019. -----1743

Ioh. Godofredi Büchneri | Consiliar. Rvtheno - Plaviens. Et Ab Archiv. Secretior. | Nec Non | Acad. Caesar.Natvr.Cvrios. Adivncti | Dissertationes Epistolicae | De | Memorabilibvs | Voigtlandiae | Svbterraneis | Ad | Virvm Excellentissimvm, Convultissimvm | Atqve | Doctissimvm Dominvm, | Dominvm | Franciscvm Ernestvm | Brückmannvm, | Phil. Et Medic. Doct. Acad. Caesar Natvr.Cvr. Et | Soc. Reg. Prvss. Scient. Colleg. Et Practic. | Wolffenb. Celeberrimün, | Rervm Natvralivm Aestimatorvm Svmmvm, Favtorem | Et Amicvm Aestimatissimvm. | [dashed rule] | MDCCXXXXIII. [Greiz, Thuringia? 1743]

4°: 8, 7, [1 blank], 8, 8, 8 p;):(^{4},)(^{4},)(^{4},)(^{4},)(^{4}. 19.8 x 15.3 cm(7 3/4 x 6 in). Cropped(probably severely). Woodcut tailpcs. JSL.

Five letters on the subterranean wealth of Voigtland, Germany: I "figured stones," ie, fossils; II marbles and other building stones; III precious stones; IV metal ores, and V placer gold. The third letter incorporates "Dn. Langhans Unterricht von denen Monath=Steinen," consisting of 16 lines on birthstones, while the text of this section contains numerous references to the gemstones native to Voigtland; there is also an extensive quotation from Marbod. Rare.

1020. BUCKLAND, A W Les mythes antiques. Serpents et pierres précieuses. Extr: *Revue Britannique*, Paris, vol 50, Feb 1874, p 299-326. Legends & myths regarding serpents, their supposed powers of fascination, and the role of gemstones in connection with same.

BUCKLEY, ERNEST ROBERTSON(1872-1912)

Amer geol; BS Wisc U 1895; PhD 1898; 1897 to Wisc Geol Survey. *Nat Encycl Amer Biogr*, 19, p 443-4, "his first report[see below], published in 1898... was one of the first publications of its kind and is recognized as one of the most complete." Mem of, *Bull GSA*, 24, 1913, p 44-8, portr.

1021.-----1898

Wisconsin Geological And Natural History Survey. |... | Bulletin No.IV. Economic Series No.2 | On The | Building and Ornamental Stones | Of | Wisconsin | [rule] | By | Ernest Robertson Buckley, Ph.D., | Assistant Geologist Wisconsin Geological and Natural History Survey. | [rule] | Madison, Wis. | Published By The State | 1898

8°: xxvi, 544 p; 69 tip-in pls(1 fold col geol map, 14 col photos on 7 pls, 15 sk maps on 9 pls, many b&w photos); 4 fig. Pale yellow-green cloth, blind orn bands on covers; gold lett spine. 22.3 x 15.2 cm(8 3/4 x 6 in). Cut. JSL; GS 5-1119.

Cont: extra flyleaf; tp; tab cont; ill lists; rock samples list; fold geol map pl; introd; 3 part text; index; extra flyleaf.

Demand for stone, uses, properties, geological history, description of deposits & quarries, and petrography of rocks and their origins. Some of the granites, particularly the Waupaca reds, are very handsome and suitable for larger lapidary objects.

BUDGE, ERNEST ALFRED THOMPSON WALLIS (1857-1934)

Brit Assyriologist, Egyptologist; b Cornwall; at early age demonstrated keen interest in Hebrew & Syriac; patronized by Gladstone, sent to Univ Cambridge; 1885 asst Keeper, Egyptian & Assyrian Antiquities, Brit Mus, Keeper in 1893-1924; active in field explorations in Egypt, Sudan, Mesopotamia; wrote numerous important publications; knighted 1920. DNB.

1022. -----1893

A Catalogue | Of The | Egyptian Collection | In The | Fitzwilliam Museum | Cambridge | By | E.A.Wallis Budge, Litt.D., F.S.A. | Acting Assistant Keeper In The Department Of Egyptian And | Assyrian Antiquities, British Museum. | Cambridge | At The University Press | 1893 | [All Rights reserved]

8°: xii, 138, [2 blank]p; many hundreds of small line drawings in text, mainly hieratics. Red cloth, gold spine lett. Plain, pale gray dj. 21.6 x 13.9 cm(8 1/2 x 5 1/2 in). Cut. JSL.

Cont: 1/2tp; publ data; tp; print data; dedic; pref; tab cont; benefactors list; catalog; index; blank f.

Systematic listing of objects by class, with brief descriptions and decipherments of inscriptions; scarabs on p 87-111, nos 78-307; other objects of stone and ornamental gemstone materials appear elsewhere.

1023. -----1893

Some Account | Of The | Collection of Egyptian Antiquities | In The Possession Of | Lady Meux, | Of Theobald's Park, Waltham Cross. | By | E.A.Wallis Budge, Litt.D., F.S.A., | Formerly Tyrwhitt Hebrew Scholar and Scholar of Christ's College, Cambridge. | Acting-Assistant Keeper in the Department of Egyptian and Assyrian Antiquities | British Museum. | London: | Harrison & Sons, | Printers in Ordinary to Her Majesty | St.Martin's Lane. | [rule] | 1893.

Title in red & black, in single-rule frame; facing same: "Two hundred copies only printed for private circulation, | of which this is No._____ "

4°: x, 119, [1]p; photo front pl, bound-in, unfolds vertically to doublep size; many hieroglyphs in text. Terra cotta cloth, beveled bds, elaborate gilt Egyptian design panel on front cover enclosing the title; gilt Egypt motifs & lett spine; blind ruled frame back cover. Blue & gold marbled endp. 26.1 x 21 cm(10 1/4 x 8 1/4 in). Aeg. Thick pale tan paper. All texts enclosed in red frames. JSL.

Cont: pl; 1/2tp; edit note; tp; print data; pref; tab cont; text; print data.

"The collection... was made in Egypt by Lady Meux in 1882." Among the particularly noteworthy items are glazed steatite scarabs, described 69-82, nos 6-79, the remarks being prefaced by generalities about scarab beetles, the significance of same in Egyptian religion, methods of preparation and inscription, and including large funereal scarabs made from basalt. Inscriptions

on many of them are incorporated in the text in hieroglyphs. The large unfolding frontispiece plate depicts the coffin of Nes-Amsu, ca 300 BC. Rare.

Lady Valerie Susie Meux was the widow of Sir Henry Brant Meux, brewer, 3rd baronet, of Theobald's Park; perhaps her chief claim to fame was in making Sir Hedworth Meux, formerly Lambton(1856-1929), a distinguished naval officer, her heir, providing he changed his name to that shown above, which he did. DNB. The collection was sold in 1911, at which time a "Catalogue and Conditions of Sale of the Furniture and Contents... [of Theobald's Park]... a Museum of Egyptian Antiquities collected and arranged by Dr.E.A.Wallis Budge... London, Waring and Gillow, May 15-26, 1911," was issued as a large 8°, 122 p, 1670 lots, with front, map, & 27 pls, printed gray wrap. A copy was offered in Spring 1984 by Sims, Reed & Fogg, London, Cat No 60, lot 243, £ 25.

1024. -----1893

The Mummy | Chapters On Egyptian Funereal | Archaeology | By | E.A.Wallis Budge, Litt.D., F.S.A., | Acting Assistant-Keeper In The Department Of Egyptian And | Assyrian Antiquities, British Museum | With Eighty-Eight Illustrations | Cambridge | At The University Press | 1893 | [All Rights reserved]

8°: [4], xvi, 404 p(first 2 f are tip-ins, the first f is blank); 6 fullp ill, 73 fig, 9 fold pls not includ in pag; also literally thousands of small hieroglyphs, cartouches, etc are scattered throughout the text. Maroon cloth, gold Egyptian god on cover in blind frame. 22.6 x 14.6 cm(8 7/8 x 5 3/4 in). Te uncut; other edges untrimmed. Reprinted 1894. JSL.

Cont: blank f; 1/2tp; publ data; tp; publ data; dedic; pref; ill list; tab cont; text; index.

A splendid work: Egyptian funeral customs/procedures, etc, in which a broad view of ancient Egypt is provided by Budge and including a large section on the Rosetta stone, its interpretation, and an account of the controversies surrounding its decipherment. However, gemologists will be mainly interested in sections on personal adornments, p 230 ff, scarabs, p 231 ff, amulets, and so on, which sections not only describe the gemstones used but also provide translations of their inscriptions.

1025. -----1972, reprint of above, mislabeled

The Mummy | E.A.Wallis Budge, Litt .D., F.S.A. | Keeper Of The Department Of Egyptian And | Assyrian Antiquities, British Museum | [outline drawing of a god] | With Eighty-Eight Illustrations | Second Edition [sic!] | Collier Books, New York, New York | Collier-Macmillan Ltd., London [1972]

Cementb: [1], [1 blank], xvi, [1], [1 blank], 404, [4 blank]p; ill. Col wrap, resume. 20.2 x 13.4 cm(8 x 5 1/4 in). Cut, Same LC. $2.95, later $5.95. JSL. *Not* the second edition.

1026. -----1925, 2nd edit

The Mummy | A Handbook | Of Egyptian Funerary | Archaeology | By | Sir E.A.Wallis Budge, Kt. | M.A., Litt.D., D.Litt., D.Lit., F.S.A. | Sometime Keeper of Egyptian and Assyrian Antiquities in the | British Museum. Corresponding Member of the | Academy of Science, Lisbon | Second Edition | Revised & Greatly | Enlarged | [logo] | Cambridge | At The University Press | 1925

8°: xxiv, 513, [1 blank], [1], [1 blank]p; fold front pl(Rosetta stone) bound-in; 38 photo pl tip-ins; ca 70 figs. Maroon cloth, front cover god now blind-stamped, blind frame; title, logo, etc. in gold on spine. 23.3 x 16 cm(9 1/4 x 6 1/4 in). Cut. JSL.

Cont; 1/2tp; publ data; pl; tp; publ data; dedic; pref; tab cont; pls list; ill list; text; index; blank p; publ data; blank p.

Much enlarged and revised but retaining organisation established in the first edition. Gemstones and related materials now appear as follows: beads, necklaces, rings, etc, p 266-70, cylinder seals p 270-1, scarabs amulets and talismans p 271-335, vessels in stone and other stone objects p 389-93, and ivories p 468-70.

1027. -----1964, reprint of 2nd edit. LC 64-13391; ISBN 0-8196-0139-X; USA $12.50. Not seen.

1028. -----1899 Egyptian magic. London: Kegan Paul, Trench Trübner & Co., Ltd., 1899, xv, [5], 234 p; ills; pls. Not seen, from Goodland p 91.

1029. -----1958, reprint of above

Egyptian | Magic | By Sir Wallis Budge | Keeper of the Egyptian & Assyrian | Antiquities in the British Museum | [orn] | University Books | New Hyde Park, New York [nd; copyright 1958]

16°: xv, [5], 234, [2 blank]p; 21 fig(7 fullp, on one side of f only, includ in pag). Yellow cloth, red lett spine, eye symbol, cross. Bright yellow dj, red & black lett, amulet design, resume, vita. 19.7 x 12.5 cm(7 3/4 x 5 in). Cut. $5.00. JSL. LC 58-8302.

Cont: 1/2tp; tp; publ data; dedic; pref; tab cont; ill list; 7 chs; blank f.

Chapter II: "Magical Stones Or Amulets," p 25-64, treats the several kinds of amulets and the gemstones or other stone materials used in their manufacture; scattered references to gemstones elsewhere.

1030. -----1930

Amulets And | Superstitions | The Original Texts With Translations And | Descriptions Of A Long Series Of Egyptian, | Sumerian, Assyrian, Hebrew, Christian, Gnostic | And Muslim Amulets And Talismans And Magical | Figures, With Chapters On The Evil Eye, The | Origin Of The Amulet, The Pentagon, The | Swâstika, The Cross (Pagan And Christian), | Numbers, The Kabbâlâh, Ancient Astrology, | Etc. | By | Sir E.A.Wallis Budge, Kt. | M.A., Litt.D., D.Litt., D.Lit., F.S.A. | Sometime Keeper Of The Egyptian And Assyrian Antiquities In The | British Museum, Scholar Of Christ's College, Cambridge, And | Tyrwhitt Hebrew Scholar | With Twenty- two Plates | three hundred illustrations in the text | Oxford University Press | London Edinburgh Glasgow Leipzig New York Toronto Melbourne | Capetown Bombay Calcutta Madras Shanghai | London: Humphrey Milford | 1930 | [rule] | [All rights reserved]

8°: xxxxix, 543, [1]p; 22 photo pls integral in text & includ in pag; 300 figs. Dk red cloth, gold lett, large gold circ amulet with mystic characters, top suspension loop, on front cover; gold lett & rules spine. 24.2 x 15.3 cm(9 1/2 x 6 in). Cut. V pale tan paper. LC 31-9193; JSL.

Cont: tp; publ data; tab cont; pls list; ill list; pref; 36 chs; index; publ data.

This enormous, erudite, and throughly researched work is

basic to any treatment of the subject by modern writers and its content has never been superseded. While a very large variety of objects is treated, and the use of gemstones in amulets & talismans appears throughout the text, most information is in a special chapter on stones and their prophylactic and therapeutic values, p 306-25; another rewarding place is on stones associated with planets in its own chapter, p 423-6; also gemstones in cylinder seals, p 86 ff and 352 ff, gnostic amulets, p 202 ff, rings, p 291 ff, and also on p 325-30 where the importance of color, shape, and form in amulets is discussed. Lucky stones are treated on p 493-4. The plates photographically depict many types of amulets and other objects. Rare.

1031. -----1961, reprint of above, title change

Amulets | and | Talismans | By Sir E.A.Wallis Budge, Kt | M.A., Litt.D., D.Litt., D.Lit., F.S.A. | Sometime Keeper of the Egyptian and Assyrian | Antiquities in the British Museum, | Scholar of Christ's College, Cambridge | and Tyrwitt Hebrew Scholar | [orn] | University Books New Hyde Park, New York [1961]

16°: [2], xxxix, [3], 543, [5 blank]p; same ill. Reddish-brown "crumpled" paper over bds, pale tan cloth spine, black panel on spine with gold lett; gold lett & eye symbol at foot. Col dj. Brown endp. 23.4 x 15.7 cm(9 1/4 x 6 1/8 in). Cut. Te stained brown. LC 61-7163; JSL.

Cont: 1/2tp; resume; tp; publ data; tab cont; pls list; ill list; pref; text tp; text; index; 5 blank p.

P [ii] comments on the present edition, noting that the word "Superstitions" in Budge's title, which even he did not like, was "imposed upon Budge by a skittish editor or publisher." Identical. Other reprints, not seen, are by Dover, New York, paper, of the 1930 edition, LC 7786708; ISBN 0-486-23573-4; $6.00; another, by Peter Smith in England, ISBN 0-8446-5676-3, $10.00.

1032. BUETTNER, DAVID SIGISMUND(1660-1719)

Coralliographia subterranea. Seu, Dissertatio de corallis fossilibus, in specie, de lapide corneo, Horn- oder gemeinen Feuer-Stein. Cum tabulis aeneis. Lipsiae, F.Croschuffi, 1714. 68 p, 4 fold tab. Not seen; from Ward & Carozzi 379.

BUFFON, GEORGES LOUIS LECLERC, Comte de (1707-1788)

Fr nobleman, naturalist; b Montbard, Côte-d'Or; ca age 25 added "Buffon" to orig name of Leclerc; law degree Jesuit Coll Dijon; visited Engl, elected Fellow Roy Soc; at age 35 apptd Keeper of Jardin du Roi in Paris; his monumental natural history was the result of being able to consult the many objects, etc in the Royal Coll for which he was directed to prepare a catalog and at which time he determined to expand its scope far beyond that orig contemplated by his superiors; elected to Acad de France; secretary Acad des Sci; d Paris. Pogg I, 338; *Biogr Univ* 6, 234-42; DSB 2, 576-82.

1033. -----1783

Histoire | Naturelle | Des Mineraux. | Par M.le Comte De Buffon, Intendant du | Jardin & du Cabinet du Roi, de l'Academie | Francoise, de celle des Sciences, &c. | [double rule] | Tome Premier[-Quatrieme]. | [double rule] | [woodcut coat-of--arms, fleur de lis] | A Paris, | De L'Imprimerie Royale. | [rule] | M. DCCLXXXIII[-M.DCCXXXVI]. [1783-86]

Part of a larger work, the "natural history" of Buffon begun in 1749 and completed in 44 quarto volumes in 1804; the present four volumes are devoted to mineral substances. Agassiz I, 483-4.

Tome I: 4°: [4], 557, xl, [2 blank]p; pi^2, A-Ffff^4, My copy, full calf, 5 bds, gilt spine labels, ae stained red. 25.2 x 19.1 cm(10 x 7 1/2 in). Woodcut head- & tailpcs. Cont: tp; tab cont; 21 articles; blank p; index, also serving as a glossary; blank f.

Tome II: [4], 602, xxvj p; pi^2, A-Iiii^4, Kkkk^2. Cont: tp; tab cont; 17 articles; index/gloss.

Tome III(1785): [2 blank], [6], 636, xix, [2 blank]p; pi^4, A-Nnnn^4. Cont: blank f; tp; tab cont; 51 articles; systematic tab of minerals accord to properties, p 609-36; index/glossary; blank f.

Tome IV(1786): [2 blank], [6], 448, xxxix p; pi^4, A-Pppp^4. Cont: blank f; tp; tab cont; 63 articles; 2 supplement articles; genesis of minerals; index/glossary with note on completion of the mineral volumes; blank p.

Buffon's justly famous *Histoire Naturelle* "was the first work to present the previously isolated and apparently disconnected facts of natural history in a generally intelligible form"(*Encyl Brit*). Despite the fact that Buffon was assisted in the first 15 volumes by the mineralogist Louis J M Daubenton(1716-1800), and later, by others, the four mineralogy volumes of this first edition were written by Buffon alone. A fifth volume, on magnets & magnetism, is sometimes included as part of the mineralogy series but has very little to say about any mineral except, of course, magnetite; it is not described here. The work was enormously popular and ran into several editions and was translated into several languages; I have not seen all editions and therefore describe only several, which, I trust, will give an accurate picture of the content of the mineralogy portion. Buffon's life and works are described by Fluorens, *Buffon, Histoire des sa Vie et des ses Ouvrages*, 1844; an enlarged edition 1850, Pogg I, 338.

The minerals are arranged & treated according to a scheme which assigns them to three great classes of rocks, namely, rocks created through the agency of "primitive fire," that is igneous rocks, second, those resulting from the "secondary" action of fire as basalts, lavas and ash deposits, or volcanic rocks, and third, rocks resulting from the accumulation of detrital material, or sedimentary rocks. However, not all minerals described by Buffon fall into their correct class, eg, some metamorphic materials are included among the igneous rocks and sometimes in the sedimentaries. This classification scheme begins the first volume, after which appear descriptions of about 20 minerals, among them quartz, jasper, feldspars, alabaster, marble, and others. The second volume treats a large and vaguely-related variety of minerals as bitumens, volcanic ejecta, sulfur, salts, alkalis, niter, borax, etc. Volume three contains many short articles on stalactites of quartz crystals, numerous gemstones, and closing the volume, a tabular systematic arrangement of minerals according to properties. Volume four is also of interest to the gemologist because there are articles on quartz ornamental stones, jade, serpentine, pearl, turquoise, coral, fluorite, a general article on gemstones, also diamond, ruby, spinel, topaz, sapphire, and girasol. Where established, densities, from Brisson, are given (which see). Many footnotes, quotations, literature references.

On the whole, the organization in respect to minerals in this and succeeding editions can be most kindly described as chaotic, with one and the same mineral, or slight variation thereof, appearing in several volumes at the same time, or even in different places in the same volume. Nevertheless, Buffon's statements

are simple, lucid, and presumably accurately reflected mineralogical knowledge of the time.

1034. -----1774-1804, 2nd edit, 36 vols. Not seen. Agassiz I, 483.

1035. -----1790, Deux-Ponts edit

Histoire | Naturelle | Des Minéraux. | Par M.Le Comte De Buffon, | Intendant Du Jardin Du Roi, De | L'Académie Françoise Et De Celle Des | Sciences, &c. | [rule] | Tome Premier[-Neuvieme]. | [rule] | [taper rule] | Aux Deux-Ponts. | Chez Sanson & Compagnie. | [double rule] | M DCC. XC. [Deux-Ponts = Zweibrücken, Bavaria],

16°: alternate gatherings of 4 & 8 ff: One: 326, [1], [1 blank]p. Two: 287, [1]p. Three: 272, [1], [1 blank]p. Four: 270, [1], [1 blank]p. Five: 291, [1]p. Six: 288, [1], [1 blank]p. Seven: 329, [2], [1 blank]p. Eight: 269, [2], [1 blank]p. Nine: 303, [4], [1 blank]p, the last print p with 9 small labels to be used by binder. Ch orns. 16.7 x 9.8 cm (6 5/8 x 3 7/8 in). Cropped. JSL.

The text is in small size type, hence a great deal of information is provided despite the small physical size of these volumes. As before, most gemological information is contained in several places, in this instance, in volume seven, much on gemstones of all kinds, and volume eight, with a special chapter on gemstones, also on the diamond, ruby, and other more valuable gemstones.

1036. -----1798, Dordrecht edit

Histoire | Naturelle | Des Minéraux | Par M. Le Comte De Buffon. | Intendant du Jardin royal des Plantes, de l'Académie Françoise, de | l'Académie royale des Sciences, de la Société royale de Londres, & | d'Edenbourg, de l'Académie royale de Berlin, &c. | Tome Premier[-Quatrieme]. | Nouvelle Édition. | [woodcut orn] | A Dordrecht, | Chez A,Blussé & Fils | MDCCXCVIII. [Dordrecht, Holland; 1798]

Four volumes on mineralogy, same text as in first edit; 4°, 29.5 x 24.5 cm(11 5/8 x 9 5/8 in).

1037. -----1891, Paris; Patrin edit

Eugène-Louis-Melchior Patrin, b Lyon 1742; stud chem & physics; traveled extensively In Urals, Altai and other regions of Siberia, 1780-87; his mineral collections, sent back to St Petersburg ahead of his return, were partly confiscated by P S Pallas(1741-1811) who is said to have extracted therefrom particularly choice pieces; the other Siberian specimens were offered for sale to the Jardin du Roi Collection in Paris, with the proviso that the suite not be broken up. Wrote numerous treatises and articles. D 1815. *Biogr Univ* 33, p 140-2; biogr by P Berthier, Lyon, 1874; Pogg II, 374-5; Dewalque 386.

Histoire Naturelle | Des Minéraux, | Contenant leur description, celle de leur | gîte, la théorie de leur formation, leurs | rapports avec la Géologie ou Histoire de | la Terre, le détail de leurs propriétés et de | leurs usages, leur analyse chimique, &c. | avec figures dessinées d'après nature. | Par Eugène-Melchior-Louis Patrin, | Membre associé de l'Institut national de France, | et de plusiers autres Sociétés savants. | Tome Premier[-Cinquieme]. [taper rule] | De L'Imprimerie De Crapelet. | A Paris, | Chez Deterville, rue du Battoir, n°16. | AN IX. [1801]

Five volumes on mineralogy corresponding to Tomes XXVII-XXXI of the full set. 12°, signed gatherings of 6 f, ca 350 p/vol, 40 engrav pls, designed by Desève, tipped-in. I have seen only the first two volumes, but the first contains a detailed index to all; in publ blue paper bds, spine labels; uncut p size 14.3 x 9 cm(5 5/8 x 3 5/8 in).

While these volumes are included in Buffon's basic work, they are a really independent production and bear little resemblance to the original five volumes of Buffon. The first volume gives Patrin's plan of the work, his method of classification of entries, comments on the genesis of minerals and their deposits, sources of information in existing literature, and remarks upon the fact that the material on Russian and Siberian sources was based upon his own personal visits, particularly to the Urals and the Altai. There is a glossary of mineral/chemical terms, and descriptions of minerals, including zircon, quartz, Bohemian topaz, amethyst, Alençon "diamonds," adularia, cat's-eye, Russian aventurine, labradorite, jade, lapis lazuli, and others, with a continuation in the second volue, which, however, is more notable because of its lengthy descriptions of Russian gemstones as beryls and topazes with several plates of same. This volume also contains much on cryptocrystalline quartzes. Volume three treats many massive materials as marbles, lumachelles, alabasters, etc., while the remaining two volumes describe metals and metallic minerals, ores, famous mines & districts, volcanic products, zeolites, bitumens, amber, sulfur, salts, and fossils.

1038. -----1803, 2nd Patrin edit. Histoire naturelle des minéraux... 2 éd... À Paris, Chez Deterville, 1803, 5 vols, pls. 13 1/2 cm. USGS GS 34-230, Kunz Coll; not seen.

1039. BUFFUM, W ARNOLD

The | Tears Of The Heliades | Or | Amber As A Gem | By | W.Arnold Buffum | [orn] | With Illustrations | London | Sampson Low, Marston & Company, Limited | St. Dunstan's House | Fetter Lane, Fleet Street, E.C. | 1896

8°: [2 blank], xxiv, [2], 98, [2 blank]p; splendidly colored litho front tip-in pl, gold necklace, various col amber cabochons, tissue gd; 2 photos on rectos of 2 glossy f, pasted to stubs of blank f of orig gatherings which have been torn out and pls affixed thereto & includ in pag. Blue cloth, gold gothic lett on cover; gold lett spine + logo. Dk greenish-gray dull-finish endp. Teg; fe uncut. 19 x 13 cm(7 1/2 x 5 1/8 in). USGS Kunz Coll, GS 33-281; JSL.

Cont: blank f; 1/2tp; pl; tp; publ data; introd; tab cont; ill list; 4 chs; blank f.

The Heliades were the daughters of Helios, the Sun God, changed to poplar trees, and when mourning the death of their brother Phaethon, their tears became amber.

Buffum, an archeologist, romantically describes his encounter with the colored ambers of Sicily in his introduction, then devotes his text to the legends connected with amber, the high esteem in which it was always held, the Baltic amber deposits, and gives references to the older amber literature. It is an entertaining account which does not neglect accuracy. G C Williamson, *Book of Amber*, 1932, p vii, notes that the work "is largely concerned with the beauty of Sicilian Amber (Simetite), the glories of which are illustrated in its coloured frontispiece, and described in fitting language... it also deals with the legends... and the places where it is found, but it does not claim to be scientific or exhaustive in its treatment of the subject." Williamson, furthermore, ranks this book as one of "but two serious books on Amber in English... long out of print," the other being J G Haddow's work, which see. A thoroughly charming work which retains its high esteem.

1040. -----1897, 2nd edit

The | Tears Of The Heliades | ... | [same orn] | Second edition | | 1897 [identical, actually a reprint]

1041. -----1898, 3rd, rev edit

The | Tears Of The Heliades [in red] |... | [same orn] | Third And Revised Edition | London [in red] | ... | 1898

8°: xxii, [2], 108, 3[advert]p; same front; now with 3 ill on one side of tip-in glossy f; pls not includ in pag. Pale brownish-orange cloth, same lett & endp. Teg, fe uncut. P size same. 5s. JSL.

Cont: 1/2tp; pl; tp; publ data; introd; tab cont; ill list; 4 chs; advert; blank p.

Entirely reset; introd shorter, dated December 1897; text revised in many places with some new material added.

1042. -----1900, Amer edit

The Tears Of The [in red] | Heliades [in red] | Or | Amber As A Gem | By | W.Arnold Buffum | First American, Reprinted From The Third | English Edition | Revised By The Author | [rule] | Illustrated [in red] | [rule] | New York | G.P.Putnam's Sons | 1900 | London | Sampson Low, Marston & Co., Limited

8°: xxiii [sic], 110, 4 advert, [2 blank]p; same ill. Cloth dk green, white endp; pale green dj, printed. LC 0-736; JSL. Identical.

BUGGE, FRIEDRICH DETLEFF GÜNTHER (1885-1944)

Ger industrial chem; PhD 1908; edit *Buch d grossen Chemiker*, 2 vols.

1043. -----1914, ca

Edelsteine | Einführung in das Gebiet | der | Schmuck= und Edelsteine | Von | Dr.Günther Bugge | Mit 46 Abbildungen im Text | [logo] | Deutsche Naturwissenschaftliche Gesellschaft | Geschäftsstelle Theod. Thomas Verlag, Leipzig [title in orn frame; nd]

8°: 83, [5 advert]p; col glossy paper wrap over bds, orn frame on cover of pearls & gems; pale blue panels with white lett; other publ bks back cover; black cloth spine with title label. 20.7 x 13.5 cm(8 1/4 x 5 1/4 in). Cut. 1 Mk. USGS GS 33-321; JSL. Also in wraps?

Cont; 1/2tp; tp; publ data; tab cont; fwd; introd; text; index; advert.

Popular introduction to gemology: first 4 chs give a concise summary of properties & crystallography, next 16 chs describe individual gemstones from diamond to amber, jet and pearl. Scarce.

1044. BÜHLER, HANS-PETER

Antike Gefässe | Aus | Chalcedonen | Inaugural-Dissertation | zur Erlangung der Doktorwürde | der Philosophischen Fakultät | der Julius- Maximilian-Universität | zu Würzburg | vorgelegt von | Hans-Peter Bühler | aus Stuttgart | 1966 [priv publ]

Edgestapled: IV f + 126 p; 18 photos & a sketch on 13 pls. Vita (Lebenslauf) sheet inserted. Pale gray print wrap; cloth spine. 21 x 14.8 cm(8 1/4 x 5 3/4 in). Cut. Also in hardcover. JSL.

Cont: tp; tab cont; fwd; introd; 8 chs; catalog; remarks; remarks on catalog; abbrev(biblio, p 125-6, 19 entries); pls; vita.

Doctoral dissertation: investigates antique vessels carved from colored gemstones, mostly from chalcedony, also agate, sardonyx, and "murrhine-type" material, but excluding rock crystal because it has been so extensively treated before. Aims to establish the place of such objects in the general scheme of antique art. Text considers materials(and ancient references to same), magical properties of agate, sources, mineralogy of chalcedony, techniques used by lapidaries, history of such ornamental objects, a chapter of considerable value on the murrhine problem, vessel shapes, metal embellishments, workshops, and results of the investigation. The following work by the same author is obviously an outgrowth but is larger and better illustrated.

1045. -----1973

Hans-Peter Bühler | Antike Gefässe | aus | Edelsteinen | [logo] | Verlag Philipp Von Zabern · Mainz [title in red & black; 1973]

4°: VII, [1 blank], 85, [1 blank], [1], [1 blank]p + 40 photo pls (143 photos) on 22 glossy f (2 pls in col, printed recto only & tip-in, others bound-in); text fig. Dull orange-sepia unfin cloth, gold title cover & spine. 29.5 x 21.2 cm(11 5/8 x 8 3/8 in). Pale tan paper. Cut. DM 98.- JSL.

Cont: 1/2tp; tp; publ data; tab cont; fwd; text; notes; catalog; abbrev(biblio, p 83-4, 17 entries); photo credits; pls tp; pls.

A publicity flyer issued in German and English accurately sums up this work: "the purpose... is to bring together in a single volume a corpus of antique vessels and vessel fragments of precious stone. With the notable exceptions of the Tazza Farnese and Coupe des Ptolomées, these objects, scattered among the museums of Europe, North Africa, Asia Minor, and the United States, are relatively unknown." The author therefore accomplishes a great service in this work and furthermore endows it with so much material, carefully gleaned from many sources, that it provides rewarding reading to almost anyone interested in gemstones. The text follows the lines already delineated in his doctoral dissertation but considerably enlarges the scope, and, despite his statement about rock crystal having been fully treated by other scholars, he takes up this material in a brand-new chapter. The photographs are excellent and include several views of the Tazza Farnese in the Naples National Museum, the Cup of the Ptolomys in the National Library in Paris, the famous agate vase with jeweled mountings in the Abbey of St Maurice d'Agaune, France, and others. Virtually all the vessels were made from cryptocrystalline quartz, some from rock crystals, and several from granular fluorite.

1046. BUHS, ALBERT Färbung und elektrische Leitfähigkeit der Zirkonvarietät Hyacinth. *N Jb Min*, Abhandl, Bd 86, 1, 1953, p 66-85, 8 fig. JSL. On the brownish-red zircons from Mongka, Siam, and resulting blue color when heated above 1000°C in hydrogen or carbon monoxide; reason for color change; oxidizing atmosphere heating to colorless or pale brown; use of nitrogen, carbon dioxide, chlorine; electrical conductivity.

1047. -----1956 Die Lagerstätten des Edelzirkons im Mongka-Gebiet. *Hamburger Beiträge zur Angewandten Mineralogie und Kristallphysik*, 1, 1956, p 57- 72. Alluvial gem-quality zircon deposits; geology of occurrences, speculation as to original host rock. Not seen.

1048. BUIS, O Guidebook to the geology of the Chivor emerald mine, January 14-16, 1966. Colombian Society of Petroleum and Geophysics, Bogotá, 31 p. Not seen.

1049. BUKANOV, V V, et al, editors. Gem Minerals. *Proceedings* of the XI General Meeting of International Mineralogical Association, Novosibirsk, 4-10 September, 1978. Leningrad: Academy of Sciences of the USSR, 1980, 152 p, 37 figs, 14 photos. 70k. 18 papers presented at the Working Group - Gem Materials. Not seen: *J Gemm*, 18, 6, 1983, p 575.

1050. BULGARI, COSTANTINO G

Costantino G. Bulgari | Argentieri Gemmari | E | Orafi D'Italia | Notizie Storiche E Raccolta | Dei Loro Contrassegni | Con La Riproduzione Grafia | Dei Punzoni Individuali | E Dei Punzoni Di State | Parte Prima - Roma | [star] | Lorenzo Del Turco, Roma [1958]

In 5 volumes, plus supplement; 4°s, cloth, many ills(some col). 29.5 x 21.8 cm(11 5/8 x 8 5/8 in).

Large, handsomely produced set of high quality materials and superior commercial bookbinding. Arntzen P 515: "the most important reference work on Italian silversmithing, jewelry, and goldsmithing. Valuable... to collectors and connoisseurs... students of painting and sculpture. Includes hundreds of facsimile reproductions of individual goldsmiths' and silversmiths' marks and of the official regional marks, and. biographical dictionaries of goldsmiths, silversmiths, and gem engravers." Only first 2 vols examined.

1051. BULLETIN OF THE FRIENDS OF JADE, THE, Robert L Frey, Editor, Wallington, Surrey, England. Vol 1, no 1(all issued of this vol), Fall 1980, center-stapled, v, 50 p; 29.8 x 21.2 cm(11 3/4 x 8 1/4 in). Cut. JSL. Text consists of R Baldassare's transl from the French, with annotation, of the second half of Abel-Remusat's *Histoire de la Ville de Khotan*, 1820, which see. Vol 2, Fall 1981, sole issue this vol, 71 p, sketch map. Articles on world trade in carved jades, appraisal methods, notes on exhibits, jade in North Carolina, in Costa Rica, Afghanistan, Switzerland, and Canada, collecting, use of nitrogen in dating jades. Continuing.

1052. BUNN, CHARLES

Crystals: | Their Role | in Nature | and | in Science | by | Charles Bunn | The Royal Institution | London, England | Formerly of Imperial Chemical Industries | [logo] | Academic Press · New York and London [1964]

16°: viii, [2], 286, 2 blank]p; 127 fig; 15 photos("plates") on 8 bound-in glossy f, after which is an f bearing title to 2nd part, tipped-in; the pls and tp not includ in pag. Col wrap, resume. 20.4 x 13.6 cm(8 x 5 3/8 in). Cut. LC 64-21664. $3.45. JSL.

Cont: 1/2tp; advert; tp; publ data; pref; tab cont; 14 chs in 2 parts: index; blank f.

Excellent survey, exceptionally lucid writing: natural history of crystals, structure, geometry, properties, growth, forms, optics, etc, all rewarding for the gemologist but esp Ch 8, "Jewels," p 121-44 which gives a general account of natural & synthetic gemstones, their properties, cutting, colors, famous gems, and a bit of lore.

1053. BUNT, CYRIL G E Engraved gems. *The Gemm*, London, vol 4, no 37, 1934, p 16-21; 38, 44-8; 39, 77-82, 3 fig; 40, 107-12, 2 photos; 42, 176-80, 3 photos; 43, 216-20, 2 photos; 44, 249-53, 3 photos; 45, 282-6, photo; 46, 302-5; vol 5, no 49, 1935, p 29-31; 50, 55.

1054. BURDET, G

Etude Historique | sur la pénétration et le développement de | L'Industrie | Lapidaire a sur le plateau de Septmoncel | et dans la région de St-Claude | par | G.Burdet, [orn] I. [orn] | Secretaire en chef de la sous-préfecture de St-Claude | [orn] | 1925 | Imprimerie Albert Roussel | Morez-Du-Jura

8°: 71 (first 2 p blank), [1 blank], [1], [1 blank], [1], [1 blank]p; 6 photos, 1 sketch. Probably orig issued in paper; my copy red cloth, gilt. 23.3 x 14.8 cm(9 1/8 x 5 7/8 in). Cut. JSL.

Cont: blank f; tp; pref; introd; 7 chs; concl; blank p; tab cont; blank p; press note; blank p.

Studies the rise & present state of the lapidary industry in the Septmoncel plateau region and St Claude in the Jura department of France near the Swiss border, close to Geneva: historical review, including remarks on development of lapidary industry elsewhere in Europe, its develonment in Geneva and influence on adjacent French industry, esp as connected with production of timepieces and bearing jewels, changes in the Jura to general lapidary work, specialties in cutting, special machine development, rise of diamond cutting. Few references and no bibliography; photos show views in countryside, plants, a local lapidary at work.

1055. BURDETT, FRED D & KING, PERCY J

The Odyssey Of | A Pearl Hunter | By | Fred.D.Burdett And Percy J.King | Authors Of "The Odyssey Of An Orchid Hunter" | Herbert Jenkins Limited | 3 York Street St.James | London S.W.l [orns] title in double-rule frame; 1931]

8°: 320 p; 16 glossy tip-in pls, includ front, with 16 photos. Bright yellow-green cloth, black lett & frame on cover; similar on spine; logo back cover. Col dj, pearl photo, other publ bks. 21.2 x 13.5 cm(8 3/8 x 5 3/8 in). JSL.

Cont: 1/2tp; tp; publ data; dedic; tab cont; ill list; fwd; 21 chs; index.

Adventures while pearl-fishing in the Phillppines and Dutch East Indies as told by Australian Burdett to writer King. Burdett began as a gold miner but became fascinated by pearling and shifted his career accordingly, with later involvement in pearl trading. Emphasis on persons & behavior but considerable information also given on methods, the shells and pearls, and other matters, especially for regions that receive little mention in the literature of pearls.

1056. BURENKOV, MIKHAIL IVANOVICH

M.Burenkov | Skvoz'| Taezhnye | Debri | Gosudarstvennoe izdatelstvo | Politicheskoi Literatury | Moskva · 1958 [vignette: camp scene]

8°: 81 p; ill; 20 cm. LC 59-29299. Mostly on diamonds and diamond mining in the taiga of Siberia.

1057. BÜRG GEORG

Die Nutzbaren | Minerallagerstätten | Von Deutsch-Südwestafrika | Georg Bürg | Mitteilungen | der Forschungsstelle für Kolonialen Bergbau | an der Bergakademie Freiberg | Nr.2 | Mit 66 Abbildungen im Text und 10 Tafeln in einer Mappe [Berlin: Walter De Gruyter & Co., 1942]

"Mitteilungen der Gruppe Deutscher Kolonialwirtschaftlicher Unternehmungen Siebenter Band."

8°; XI, 305, [3 advert]p; 65 fig(5 fold col maps, b&w maps, photos, charts); 18 tab. Grayish-blue wrap, lett, hands, dec on front; cover title, vignette. 22.8 x 15.8 cm(9 x 6 1/4 in). Cut. JSL. GS 48-303.

Plates: in paper portfolio, similar lett, etc., fold flaps; about same size as text; 10 col fold maps.

Cont: ser tp; publ data; tp; fwd; tab cont; text; biblio(p 293-305, 243 entries); advert.

Survey of useful mineral deposits of South West Africa, a former German colony, and one that Germany anticipated would be regained as a prize if World War II was successfully concluded. Deposits described meticulously, geologically, mineralogically, and economically, with former production figures. Among gemologically interesting deposits are those of diamond and granitic permatites that produce gemstones, with much space devoted to diamond p 215-70, beryl, quartz, tourmaline, etc, p 270-6, and various others as copal, calcite, fluorite, corundum, p 276-93. Much attention also paid to the famous copper deposits of Tsumeb and Guchab. Tafel X in folder: occurrences of non-metallics and including diamond & gemstones; Tafel IX shows land blocks of the diamond region along the Atlantic coastline. Extremely scarce. PJ Hugo et al, 0373.

1058. BURGESS, FREDERICK W

The Home Connoisseur Series [underlined] | Antique Jewellery | And Trinkets | By | Fred.W.Burgess | Author Of "Antique Furniture," "Old Pottery And Porcelain," "Chats On Old Copper | And Brass," Etc. | With 142 Illustrations | London | George Routledge & Sons, Ltd. | New York: G.P.Putnam's Sons. | 1919

8°: xiii, [1 blank], [1], [1 blank], 399, [1 blank]p; photo front pl, tissue, + 23 other tip-in photo pls. Dk maroon cloth, blind frame & oval orn frame enclosing jewel in gold; gilt spine; cloth stamped in hexagon pattern. Beveled bds. 21.3 x 13.7 cm(8 3/8 x 5 3/8 in). Cut. In numerous copies seen, paper browned, embrittled. JSL.

Cont: 1/2tp; other ser bks; pl; tp; pref; tab cont; ill list; text tp; 43 chs; index; blank p.

Enormously popular, fascinating melange of information, delivered in easy style. Much material is unusual and this alone causes the book to be still frequently referenced. Gives brief historical survey, precious metals, art of jeweler, guilds, and gem engraving, followed by a systematic survey of jewelry in its many manifestations from antiquity into the Victorian period. The remaining text, p 165 ff, gives material on gems and precious stones, cutting, pastes and artificial gems, cameos, etc, not to mention chs on fans, watches, seals, amulets, charms, fluorspar and marble, mosaics, amber, jet, coral, and much more. Photos mostly of jewelry. Scarce, possibly promoted by disintegration due to poor paper.

1059. -----1919, reissued, new binding; identical text, also decaying paper, dark red cloth, plain, blind stamping only on cover; non beveled. P size larger, 21.9 x 14 cm(8 5/8 x 5 1/2 in). Cut.

1060. -----1937, New York reprint

Antique Jewelry | And Trinkets | [double-rule] | By | Fred W.Burgess | Author of | "Antique Furniture," "Old Pottery and Porcelain," | "Chats on Old Copper and Brass," | etc. | With 142 Illustrations | [double rule] | Tudor Publishing Company | New York MCMXXXVII [1937]

8°: xii, [1], [1 blank], 399, [3 blank]p; ills now on 47 tip-in & bound-in glossy f. V dk green cloth, blind frame on cover, with gold title on green spine panel, with gold jewel & lett. Red & black dj, gold & green jewel; other publ bks; resume. 23.4 x 15.6 cm(9 1/4 x 6 1/8 in). Cut. Te stained pale green. JSL.

Cont: 1/2tp; pl; tp; print data; pref; tab cont; ill list; text tp; text; index; 3 blank p.

First 2 f reset, slight rearrangement front matter, but from original plates now showing broken & worn type.

1061. -----post 1937, reissue of 1937 reprint

Antique Jewelry |... | Tudor Publishing Company | New York [nd]

Same pag; ill now on both sides of glossy f which gathered into 3 groups, bound-in & tipped-in, but with only 24 f; former front pl removed and its ill placed on a leaf of the first group. Tan cloth, blind frame on cover, green spine panel & gold lett. 22.9 x 15.3 cm(9 x 6 in). Cut. Fe untrimmed. JSL. More wear on type.

1062. BURGESS, P H E

Diamonds | Unlimited | taper rule] | P.H.E.Burgess | Former Chief Security Officer, | Williamson Diamond Mine | [logo] | John Long | London | [1960]

8°: 190, [1], [1 blank]p; tip-in glossy front photo pl + 13 photos on both sides of 3 bound-in & tip-in f. Maroon red paper over bds; silver lett & unicorn on spine. DJ. 21.2 x 13.6 cm(8 3/8 x 5 3/8 in). Cut. Pale tan paper. 2ls, JSL.

Cont: 1/2tp; pl; tp; publ data; dedic; ackn; ill list; 25 chs; blank p.

The author's experiences at the famous Williamson diamond mine in Tanganyika(Tanzania) and containing much information on the personality and behavior of eccentric Dr John Thorburn Williamson, discoverer of the deposit and its developer. Burgess and Williamson were together much of the time, with Burgess frequently being called on to act as executive officer during the absences of Williamson. Williamson was born Montfort, Quebec 1907 and graduated in mineralogy from McGill University and joined the Geological Survey of Quebec. At age 28 he took a position as geologist in a Rand gold mine, and forming his own theories as to the origin of diamondiferous pipes, he searched for 5 years in northwest Tanganyika until he discovered his Mwadui pipe in 1940. He was noted for his humanitarian treatment of his employees, lived simply and unobtrusively, and never married. Because of his reticent behavior, the present account may eventually be one of the very reliable ones concerning Williamson. Rev *The Gemm* 30, 354, Jan 1961, p 19-20.

1063. -----post 1960, reprint

Diamonds | Unlimited |... | Williamson Diamond Mine | The Adventurers Club | [taper rule] | London [178-202 Great Portland Street, London, W.I., nd]

16°: 190, [1], [1 blank]p; 14 photos on both sides 4 glossy f bound-in betw p 96-7. Maroon paper over bds as before; gold lett spine with barbed wire rules. 20.9 x 13.7 cm(8 1/4 x 5 3/8 in). Cut. Red col dj, white lett, barbed wire dec; resume. White paper. JSL.

Front matter reset; ills rearranged; also seen a later reprint bound in vermilion paper over bds.

BURKART, EDUARD (1865-1941)

B Brno, Moravia; 1890 PhD U Bern; upon death of father assumed the family publishing/printing business; acquired strong interest in mineral collecting from childhood, eventually amassing a collection of about 11,000 Moravian mineral specimens, which, with library, bequeathed to the Moravian Provincial Museum.

1064. -----1953

Moravské Nerosty | A Jejich Literatura | Mährens Minerale | Und Ihre Literatur | Dr Eduard Burkart † | Moravské Museum V Brně | Pouze pro vnitřní potřebu | Nakladatelstvi Československé Akademie Věd | Praha 1953

8°: 1003, [4]p; tip-in front portr of B. Pale tan paper bds, pale brown cloth spine, gilt. 23.6 x 16.6 cm(9 1/4 x 6 1/2 in). Cut. JSL.

Large elaborate topographic mineralogy of Moravia, the lifetime work of Burkart, and enlarged and posthumously published; numerous references to gemstones under the alphabetically-arranged localities. Large biblio, p 23-81, 1213 entries; indexes to minerals & localities, with superseded German names opposite current Czech names. Vita of Burkart. In German except for parallel Czech in introductory matter & nomenclature.

1065. BURKE, L J The diamond industry. *Diamant*, no 95, 1967, 15 pp; not seen.

1066. BURLING, JUDITH & BURLING, ARTHUR
Jade. Ch 8, p 251-71, in *Chinese Art*, London: Thames & Hudson, 1953. Not seen, from Born, p 79; Yang 1149.

1067. BURLINGTON FINE ARTS CLUB, LONDON

Burlington Fine Arts Club | [orn] | Exhibition | Of | Ancient Greek Art | [orn] | London | Printed For The Burlington Fine Arts Club | 1903

Second issue; a note on p 255 on several engraved gems states that they arrived too late for the "first issue of the Catalogue;" latter not seen.

4°: [2]p signed "a" + xviii, 265, [1]p + [1]f blank; ch orns; large logo orn of Chiswick Press. Pale blue-gray print wrap, cover title. 29 x 22.5 cm(11 1/2 x 8 7/8 in). Uncut. Hand-laid type paper, watermark. JSL.

Cont: blank f; 1/2tp; tp; print data; committee names; thanks to authors; list of contributors; pref; 5 parts text; append; index to contributors; print data & logo; blank f.

The parts deal with sculpture & bronzes, terra-cottas, Greek vases, Greek coins, and part 5, p 157-255 on cameos and intaglios and seems to be largely from the hand of Charles Newton-Robinson and is both a large and important record of the many fine gems in the exhibition. Also in the exhibition was a fine engraved agate vase(Hamilton vase) which merited several pages of description. Altogether 450 engraved gems were exhibited.

1068. -----1915

Burlington Fine Arts Club | [orn] | Catalogue Of A Collection | Of Objects Of | Chinese Art | [engrav orn] | London | Privately Printed For The Burlington Fine Arts Club | 1915 [Chiswick Press]

4°: lv, [1 blank], 106, [1], [1 blank]p; tinted front pl with paper guard sheet bound-in + 55 other pls, some tinted & with gds, 3 in full col, bound-in at end; head- & tailpcs. Lt blue cloth, gold lett cover & spine; beveled bds. 31.8 x 25.7 cm(12 1/2 x 10 1/8 in). Teg; others untrimmed. All pls cloth-hinged. Laid paper, watermark "Chiswick Press." JSL; Yang 1150.

Cont: pl; tp; press note; exhibit committee; contrib list; pls list; pref; introd; dynasty dates; names of divinities; catalog; logo; blank p; pls.

Introduction presents short essays on each of the classes of art represented in the exhibition while the catalog lists items by case & locations in the society headquarters in London, providing each entry with identification, material, descriptions, dimensions, name of lender. Among the mineral materials are objects made from jade, quartz crystal and cryptocrystalline quartz, steatite, lapis lazuli, and from organic materials, objects in ivory, amber, coral, horn. Large group of snuff bottles. Some of these depicted on the plates but the latter a little too lightly inked, with color better. A fine, well-made catalog.

1068A. ------same, text issue; no plates

4°: xlvii, [1 blank], 106, [1], [1 blank]p. Pale gray-blue print 29 x 22.3 cm(11 3/8 x 8 3/4 in). Uncut. JSL.

1069. BURLS, JOHN Diamonds. *The Geographical Mag*, Jun 1965, 15 p, ill; not seen.

1070. -----1967 ca

Science and Technology | of Industrial Diamonds | Proceedings Of the | International Industrial Diamond | Conference, Oxford | Volume One: Science | Edited By | John Burls | Industrial Diamond Information Bureau | [orn] | Industrial Diamond Information Bureau | London [nd, ca 1967]

In two vols, treated separately.

16°: [8], 172 p; many photos, diagrs, etc; small photos of authors. Dk blue cloth, gold spine title. Dull orange endp. White dj, blue lett, other Bureau bks. 22.9 x 15.3 cm(9 x 6 in). Cut. 45s net. Purchasable separately or both, in blue paper-covered card slipcase. JSL.

Cont: 1/2tp; tp; publ data; pref; tab cont; 13 contribs.

"This book and its companion volume represents a record of the papers read... 19th to the 22nd of September, 1966." Most of the material is far too technical to be useful or even intelligible to the average gemologist, tradesman, lapidary, etc, but with study considerable useful information can be found. Interesting contributions: radiation damage to diamonds & annealing; shock-formed diamonds in meteorites & lab; cleavage & fracture; crystal defects; synthetic diamonds examined.

1070A. -----1967 ca

Science and Technology |... | Volume Two: Technology |...

16°: vii, [1 blank], [3], [1 blank], 392 p; many ill. 60s net. JSL.

Cont: 1/2tp; tp; publ data; conf chairmen; pref; tab cont; 31 contrib.

Interesting contributions are: stone grinding, diamond grits, diamond powders in micron sizes, polishing, sawing of, etc, also fine articles by S Tolansky "Early historical uses of diamond tools," p 341-9; A C Nesbitt "Diamond mining at sea," p 351-67.

1071. BURMEISTER, HERMANN CARL CONRAD (1807-1892) Reise nach Brasilien... Mit besondere Rücksicht auf die Naturgeschichte der Gold= und Diamantdistricte... Berlin: Druck & Verlag Georg Reimer, 1853, 8°: VIII, 608 p, map. This work frequently appears in reference lists as containing matter on Brazilian diamonds; to be sure it does, but very little, comprising a short note in the Appendix, p 595-603, gleaned, as the author himself acknowledges, from other sources. Pogg III, 217-8.

1072. BURNHAM, *Miss* SARAH MARIA(1818-1901)

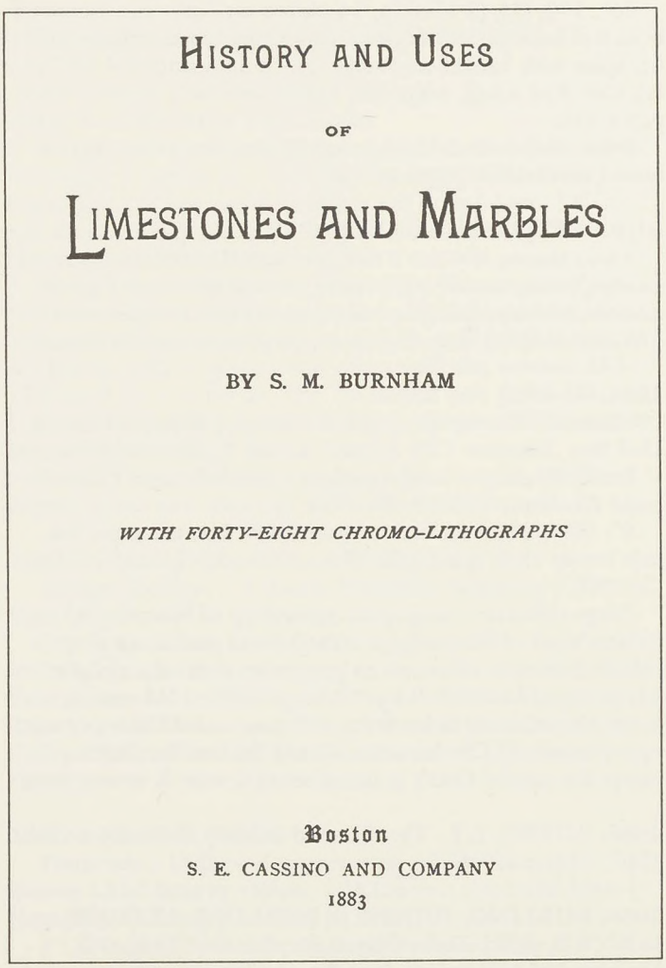
History And Uses | Of | Limestones And Marbles | By S.M.Burnham | With Forty-Eight Chromo-Lithographs | Boston | S.E.Cassino And Company | 1883 [title in red & black]

8°: [1], [1 blank], xv, [1 blank], 392p; extra flyleaves; front col pl tip-in + tissue gd + 23 other tip-in col pls. Brown or green pebbled cloth, elab decorated black borders on front & spine, gold titles & rules, central panel on front cover with pasted-in col pl cut-out, black title. Pale orange floral endp. 22.9 x 15.3 cm(9 x 6 in). Te uncut, fe untrimmed. Paper browned badly, brittle in many copies. LC 6-16892. JSL.

On 1/2tp: "Limestones And Marbles | No._____ " with number 276 in red ink, suggesting a limited edition but there is no statement of quantity.

Cont: blank f + 1/2tp; pl; tp; publ data; pref; introd; tab cont; 23 chs; append; index + blank f.

Remarkable, thoroughly interesting work, containing much information of an unusual nature as well as expected discourses on calcareous stones. There are many lesser essays into other rocks and minerals which contribute gemological value. Classes of limestones are first discussed, then fossils, to which an entire chapter is devoted, and another on geological time and its divisions. Following chapters describe marbles and occurrences in the United States and worldwide, and also stones used in antiquity with special reference to those found in Roman structures. The appendix tabulates principal types of marbles and limestones and their sources. There is much to be learned from this by gemologists but some patient digging is required to unearth such facts, as for example, remarks on jaspers, malachite, etc, which appear in the chapter on U S A limestones, while under Mexico may be found information on gem opal. Delightful, skilfully colored rectangular panels depict ornamental stones, two per plate. Copies are now very scarce, probably due to a limited printing and the perishing nature of the paper.


HISTORY AND USES

OF

LIMESTONES AND MARBLES

BY S. M. BURNHAM

WITH FORTY-EIGHT CHROMO-LITHOGRAPHS

Boston

S. E. CASSINO AND COMPANY

1883

1072. Miss Sarah Burnham's splendid work is one of the finest treatises on gem materials written by an American author but now almost unknown

1073. -----1886

Precious Stones | In | Nature, Art, And Literature | By | S.M. Burnham | Author Of "Limestones And Marbles: Their History | And Uses" | Boston | Bradlee Whidden | 1886

8°: blank f + 400p + blank f; tip-in front woodcut pl of gem cuts, tissue. Brown pebbled cloth, gold lett, rules, monogram, black bands on spine only; covers plain. Pale yellow-tan endp. 22.8 x 15.2 cm(9 x 6 in). Fe untrimmed. Paper yellowing, embrittled. LC 8-30350. JSL.

Cont: blank f; pl; tp; publ data; tab cont; pref; 18 chs; 6 appends; index; blank f.

Binding matches her previous book but the publisher changed and there is no front cover decoration nor color plate inset. It is fully as remarkable as her limestone book and is written in the same interesting clear style. Miss Burnham obviously was fascinated by the human side of gemstones and jewels with the result that history and lore of gems, famous gems, gems in literature, etc, are emphasized over the drier scientific and technical aspects. Beginning chapters take up diverse topics as general natural history of gemstones, antiquity, prices, trade, pawning, sumptuary laws, robberies, large gems, famous collections, crown jewels, secular uses of gems, sacred uses, precious stones in literature, gem engraving, and so on, after which are several chapters on the diamond and famous diamonds. The remainder takes up major and minor gemstones, the latter quite remarkable for the large number of rarities that are described, also organic gemstones, and a final chapter on numerous varieties of quartz. Appendices: sizes of large or remarkable diamonds; classification of gemstones according to composition; tables of hardness and density; localities in the U S A that have furnished gem minerals. In respect to the last, acknowledgment of assistance by G F Kunz in the preface suggests that some of the information may have been based on Kunz's writings. Scarce, desirable, but sound copies are very few due to quality of materials. Both works should be reprinted and a biography of the author included(which I have not been able to find).

1074. BUROV, ALEKSANDR PETROVICH Kak iskat almazy. Moskva: Gosudarstvennye Nauchno-Tekhnicheskiy Izdatelstvo Literatury Po Geologii i Okhrane Nedr, 1962. "Bibliotechka Iskatelya Polezhnikh Iskopaemyk." 36 p, ill. 21 cm. LC 63-46052. Not seen.

1075. BUROV, ALEKSANDR PETROVICH & SOBOLEV, VLADIMIR STEPANOVICH, editors Almazy Sibir. Moskva: Gosudarstvennye Nauchno-Tekhnicheskiv Izdatelstvo Literatury Po Geologii i Okhrane Nedr, 1957, 157, [3]p, ill, maps(1 fold col in pocket). LC 57-47157. 14 r, 85k. 27 cm. Not seen. On diamonds of Yakutia region uf Siberia, written by several members of the survey responsible for the discovery of the deposits in 1954; neither their names nor the names of the editors appear in title. Rev *Min Abstr*, 14, 1, 1959, p 40: geology of kimberlite pipes, kimberlite petrology, mineralogy, mineralogy of diamonds, placer deposits, geophysical prospecting.

1076. BURRIDGE, A DESMOND

Microscope | on | performance | De Beers Diamond Research Laboratory | [logo] [Johannesburg, 1970; title from cover]

Centerstapled: 39, [1] p; 29 col or tinted photos; 28 b&w photos. Col wrap. 29.9 x 20.9 cm(11 3/4 x 8 1/4 in). Cut. JSL.

On functions & achievements in many fields in which diamond used; research on diamond; solutions to mechanical engineering problems associated with recovery of diamonds from ores.

1077. BURROW, DOC

Go To - | Northern[Central,Southern] California | Gem and Mineral Collecting Areas | Compiled by | Doc Burrow | Copyright © by | Doc Burrow and Walter H.Hassell | All rights reserved | Printed and Published by | Studio Press · P.O.Box 393. Sonoma, Calif. 95476

Three centerstapled booklets, [3], 44p, 15 maps; [3], 88 p, author photo, 28 maps; [1], ii, 76p, author phot, 10 maps. Wraps. 9 x 6 in.

Guides to collecting areas; vague directions; maps not much help.

1077A. BURTON, HAL

[to left:] The Real Book About | [to right:] By Hal Burton | Illustrated By Jean Michener | Treasure Hunting | Edited By Helen Hoke | Garden City Books | Garden City, New York [to right "Real Books" logo in red] | By Arrangement With Franklin Watts, Inc. [1953] [Title spread over 2 p]

Cementback: 190, [2 blank]p; many dull-red & black text drawings, some fullp(one on tp, left). Decorated plastic-covered bds, col drawing endp. Col dj; 20.9 x 14 cm(8 1/4 x 5 1/2 in).

Cont: 12/tp; tp(2 p); publ data; dedic; tab cont; text tp; 17 chs; biblio(p 185, 9 entries); blank p; index; blank f.

A pleasing mix of fact and lore for the juvenile audience; Ch 7, p 71-85 on the romance of diamond discovery, mining, and famous gems and jewels followed by Ch 8, p 86-96 on gems and jewels in general.

BURTON, Sir RICHARD FRANCIS(1821-1890), K.C.M.G.

B Torquay; Trinity Coll, Oxford, but to army before completion of studies; dispatched to India, duties in East India Co, 1842-9; widely traveled, fluent in many oriental and Near-Eastern languages; 1861 in Foreign Service, served in various posts; best known for transl of *Arabian Nights*, 16 vols, 1885-8 but also prolific writer of travel accounts as well as other books; d Trieste. Pogg III, 219; DNB. Isabel Burton, *The Life of Captain Sir Richard F.Burton* 2 vols, 1893; Edward Rice, *Captain Sir Richard Francis Burton*, 1990.

1078. -----1869

Explorations | Of The | Highlands Of The Brazil; | With | A Full Account Of The Gold And | Diamond Mines. | Also, | Canoeing Down 1500 Miles Of The Great River São Francisco, | From Sabará To The Sea. | By | Captain Richard F.Burton, | F.R.G.S., Etc. | Vol.I [-II]. | London: | Tinsley Brothers, 18, Catherine St., Strand. | 1869. | [All Rights of Translation and Reproduction reserved.]

In two volumes of same date, Titles preceded by tip-in double ff bearing verso a woodcut view serving as front and facing, another tp reading:

The | Highlands Of The Brazil. | By Captain Richard F.Burton, | F.R.G.S., Etc. | [woodcut vignette of male Tupy Indian, with caption; in vol 2, a female Tupy Indian] | Vol I [-II]. | London: |... [same]

Vol I: 8°: [2]f + xii, 443, [1 blank]p; fold woodcut map of Brazil tip-in ahead of text(see note below), text woodcut map p 69. Green cloth, gold male Indian on cover in blind frames; gold orn rules & lett spine; blind frame back cover. Brown, dull finish endp. 21.9 x 14 cm(8 5/8 x 5 1/2 in). Te uncut; fe partly uncut.

Cont: 1/2tp; pl; vignette tp; tp; publ data; dedic; pref by Isabel (Mrs) Burton; Lusiads of Camoens; tab cont; prelim essay; map; 41 chs.

Vol II: 8°: [2]f + viii, 478, [2]p; fold woodcut map of Brazil as before; 11 woodcut figs.

Cont: 1/2tp; pl; vignette tp; tp; publ data; tab cont; map; 29 chs; append; index; advert.

Note: variants of first edit recorded, some with only one map, others with two maps, one per vol, and still others with maps after text; the variant described below has no maps and no signs that they were ever included.

The preliminary essay in the first volume summarizes the economy, population, cultural features, etc of Brazil, but more importantly, reviews earlier accounts of travel in Brazil and provides an annotated bibliography, p 13-8, which, however, is far from complete. The text covers Burton's travels, in company with his wife, from Rio De Janeiro to the interior of what is now the State of Minas Gerais, during which leg of his journey he visited the gold mines of Morro Velho and Ouro Preto and then traveled overland to Sabará and Cuiabá, The second volume carries on from there to the diamond mining region around Diamantina, thence north to the Rio São Francisco, with embarkation upon this river and following downstream through the present states of Bahia, Pernambuco and Alagoas to the coast. The first volume is nearly devoid of any references to diamond but the second volume contains important chapters on alluvial diamonds of Diamantina and scattered references to diamond diggings in Bahia. Specific passages: Ch 6, p 72-93, Ch 7, p 94-108 (describes city of Diamantina, people, local diamond industry, production fig), Ch 8, p 109- 24, diggings along Jequintinhonha River (details on type deposits, mining, washing, recovery), Ch 9, p 125-34 (mines at São João), lastly, Ch 10, p 135-54, being especially valuable for its firsthand information on diamond mines in general, supplemented by data gathered from other mineralogists and geologists who had visited the mines,

and with material on extent of the diamondiferous formations, methods of prospecting, legal matters, mineralogical properties of diamond, character of the alluvial deposits, clues used by prospectors, and the mineral associates of diamond. Also given are systems of weights as used in Brazil for trading diamonds, price structure, boart and its nature, and descriptions of large and famous Brazilian diamonds. Quite aside from the adventurous aspects of the Burton's travels, the material on diamond remains as an invaluable reference. This work is constantly in demand but is scarce.

1079. -----1869, variant issue
Maroon-purple cloth, no fold maps, but with [2]p adverts at end of vol 2.

1080. -----1969, facsimile, New York
Explorations |... | Vol. I[-II]. | [logo] | Greenwood Press, Publishers | New York [1969]

16°: Vol I: p[i-ii], front pl f, reproduction of separate pictorial tp; p [iii]-xii, 1-443 + [5 blank]p. Vol II: p [i-ii], front pl f, pictorial tp, p[iii]-viii, 1-478 + [6 blank]p. A fold map tip-in ahead of text in Vol II. Brown cloth, gilt spine titles & logos. 22.9 x 15.2 cm (9 x 6 in). Cut. LC 68-55181. JSL. Clean, sharp facsimile.

BÜSCHING, ANTON FRIEDRICH(1724-1793)
Eminent Ger geographer, theologian, writer; prof philosophy Göttingen U 1759-.

1081. -----1772-74 ... Geschichte und Grundsätze der schönen Künste und Wissenschaften im Grundriss... Berlin: G.L.Winter, 1772-74, 2 vol in 1, 17 1/2 cm. Vol 2 bears imprint: Hamburg: Buchenröder und Ritter. Cont: 1. Stück. Die Geschichte und Grundsätze der Bildhauerkunst, 1772. 2.St. Die Geschichte und Grundsätze der Steinschneiderkunst [history & fundamentals of gem engrav]. USGS Kunz Coll, GS 33-280; data from card.

BÜSCHING, JOHANN GUSTAV GOTTLIEB-(1783-1811)
Son of A F B above; roy archivist at Breslau 1811; prof archeol 1823; writer of many works on Ger lit, art, medieval antiquities.

1082. -----1811 Die Kräfte der Edelsteine nach dem Glauben des Mittelalters. *Mus f altdeutsches Literatur u Kunst*, 2, 1811, p 52-145. In: SCHRÖDER, CARL, "Varia und Wiener Handschriften, " *Jb des Vereins f niederdeutsche Sprachforschung*, 2, 1877, p 51-79. Not seen; from BELKIN, J S & CALEY, E R *Eucharius Rösslin the Younger*, Berlin & New York, 1978, p XXIV.

BUSHELL, STEPHEN WOOTTON(1844-1908)
Brit physician & Chinese archeol; stud medicine London, grad MB from London in 1866 (in addition to medical studies, earned first-class honors in geology & paleontology); 1868 to Peking as phys to Brit Legation; ret in 1900 due to poor health; in England, devoted himself to study & writings on Chinese art and archeology, with emphasis on ceramics. DNB.

1083. -----1900 On jade in China. Its places of production, varieties, literature, and manufacture. An introduction to *Yü Shuo*, by T'ang Jung-tso. In: H R Bishop, *The Bishop Collection. Investigation and Studies in Jade*, 1900, p 285-320, 321-70(transl), which see.

While only part of the larger work, this article is extremely important and authoritative. It treats reverence for jade, the Yü character; jade rivers; the mountains, towns and quarries of Khotan; jade of Chinese Turkestan according to Ying Ho; jade of Mirtái Mountains and from the Yurungkash river; present supplies to Peking; Ch'ien-lung jade; Burma jade; ancient and prehistoric jade; insignias of rank; symbols in worship; talismans and amulets. There is also detailed references to *Po ku t'ou* (Illustrations of Ancient Bronze, 30 books); *K'ao kü t'ou* (Illustrated Researches of Antiquities, 10 books); and *Ku yü t'ou* (Illustrations of Ancient Jade, 2 hooks), all in one work as edited by Huang Sheng in 1753 AD, and to *Ku yü t'ou pu* (Illustrated Description of Ancient Jade, 100 books), edition of 1779 AD. In effect, Bushell's article provides an extensively annotated bibliography on Chinese and Western works on jade. Considerable material is extremely difficult to find elsewhere, eg, quotations from works which give eyewitness accounts of jade mining, etc.

1084. -----1904
Chinese Art | By | Stephen W.Bushell, C.M.G., B.Sc., M.D. | Member of Council of Royal Asiatic and Royal Numismatic Societies. | Late Physician to H.M.Legation, Peking. | Volume I [-II]. | With 104 Illustrations. | [royal monogram] | London: | Printed For His Majesty's Stationery Office, | By Wyman And Sons, Limited, Fetter Lane, E.C. | [rule] | 1904. | Price 1s. 6d. In Cloth, 2s. 3d. [Vol II title reads "Volume II. | With 135 Illustrations | And 113 Marks And Seals. |... "

At head of title: "Board Of Education, South Kensington, | Victoria And Albert Museum. | [rule] |... "

8°: 156 p; 104 photos on 87 bound-in f not includ in pag; 1 fig and Vol II, xiiip + p[3], 4-151 + [1 blank]p; 135 photos on 124 bound-in f; 113 fig. Dk green cloth, gold & black lett on cover with monogram in black; gold lett spine; pale yellow endp. 19.6 x 14 cm(7 3/4 x 5 1/2 in). Cut. Also in gray print wrap and in a large paper version, 1/4 dk green morocco, morocco corners, dk green cloth sides, gold lett spine, marbled endp. 28.4 x 19.1 cm(11 1.8 x 7 1/2 in). Teg, others untrimmed. 10s. 6d. JSL. Yang 1152.

Cont: tp; publ data; pref; tab cont; ill list; text; index; Vol II, tp; publ data; pl(Fig 1); tab cont; ill list; text; index.

Highly esteemed survey of the major divisions of Chinese art, in which the chapter on jade in volume 1, p 134-51, 11 photos, is much referred to in later works on jade. It is not lengthy but it provides an excellent epitome of the subject from which much can be learned even now. Topics include nomenclature, mineralogy, deposits, colors, early inscriptions on plaques, ancient or tomb jades, jade carvings in rituals, and carvings from hardstones other than jade. Also of interest: ivory, horn, tortoiseshell & minor gemstones in ch 5; there is a short ch on jewelry in the second volume.

Enormously popular, reprintings necessary in 1905, 1906, and probably into the next several years; a second edition appeared in 1909, and a French translation in 1910, *see below*. The large numbers of sets coming into the secondhand market inevitably resulted in mismatched pairs and these are still commonly offered and aside from differences in bindings, offer the same information.

1085. -----1909, 2nd edition

Chinese Art | By The Late | Stephen W.Bushell, C.M.G., B.Sc., M.D. |... [2 lines of honors] ... | Second Edition Revised | ... 1909. | Price 1s. 6d. In Cloth, 2s. 3d. [Also in large paper and cloth]

8°: xi, 148 p; xiii, 151 p; pls. Reprints: 1914 -19, -21, -24.

1086. -----1910, Fr edition L'Art Chinois. Traduit de l'Anglais sur la deuxième édition et annoté par H.D'Ardenne de Tizac, Ouvrage illustré de 240 gravures hors-texte. Paris, Librairie Renouard, 1910. [Another ref gives publ as "Laurens."]

8°: IV, 359 p; cloth. Not seen.

BUSHELL, S N, see BISHOP, H R,, 1900; and T'ANG JUNG-TSO

1087. BUSS, W M & BUSS, VINCENT

W.M. & Vincent Buss | [rule] | The Lure Of | The Stone | The Story Of Henrietta Stockdale | Howard Timmins | P.O.Box 94 Cape Town | 1976

8°: 131, [1 blank]p; 16 photos on both sides of 4 glossy bound-in f. Green paper over bds; white spine lett. Col photo(handful of diamonds) on both dj covers, with title on front & spine; flap resume. 21.3 x 13.5 cm(8 3/8 x 5 3/8 in). Cut. R 5.50. ISBN 0 86978 137 5; JSL.

Cont: logo; tp; publ data; dedic; tab cont; ill list; ackn; pref; 11 chs; chronology; biblio(p 126, 16 bks, 8 other); index; blank p.

Henrietta Stockdale was a nurse in the interior of South Africa during the days when the first diamonds were being discovered and mined in the alluvial and pipe deposits; there are many fine anecdotes recounted, for example, the story of Dr W G Atherstone's identification of the first diamond find, the story of Harry Emanuel's visit, and his disparagement of the future of South African diamond mining. There are also stories about the roles played by doctors in the diamond fields, especially by Josiah Wright Matthews who wrote *Incwadi Yami*, which see, also Emil Holub, see his works also, Dr Jameson, and others. The details on squalor, poor health conditions, and other hardships, are recounted, as well as efforts to establish adequate medical facilities and hospitals; such remarks seldom are found in most works on the early days of diamond mining which tend to emphasize the romantic and adventurous aspects and ignore the harder facts of primitive mining camp life.

Henrietta Stockdale, was born 1847 in Nottinghamshire, dgtr of an Anglican clergyman; she became a missionary/nurse in South Africa and spent most of her life in Kimberley; she is credited in large measure with establishing adequate health care services in the region.

1088. BUTKOVIČ, ŠTEFAN

Štefan Butkovič | História | Slovenského Drahého | Opálu Z Dubníka | Bratislava 1970 [Vydalo Nakladatelstvo ALFA, np]

P [4]: "Vydané v rámci edície Bádateľské práce pracovníkov Technického muzea c.5."

8°: 267, [4]p; 13 col photos on one side of 9 tip-in glossy pls; 37 text ills; 2 fold pls tip-ins, one with 4 maps and a photo on both sides, the other with a building plan on one side only. Two part col fold plans, ca 60 x 45.5 cm(23 3/4 x 18 in), one of side profiles of underground workings, the other a top plan of same; both in dk blue cloth loop cemented into inside back cover. Lt blue cloth, black lett spine, col dj(black, photos of opals; reviews of the work in Czech). 23.8 x 17 cm(9 3/8 x 6 3/4 in). Cut. Kcs 30.- 1,000 copies. JSL.

Cont: 1/2tp; tp; publ data; pref; introd; 10 chs; tabs; notes; biblio(p 211-24, 302 entries); Russ resume; Engl resume; German resume; loose map captions; tab cont; publ data; blank p.

The only modern history of the precious opal mines in the region around the villages of Dubník and Cervenica (Czerwenitza, or, in Hungarian, Vörös Vágás), in east Slovakia. This section of Czechoslovakia was long under Hungarian rule and the opals commonly are called "Hungarian" or "Magyar" opals. The text takes a broad view of opal, reviewing its world history as garnered from ancient sources, and concluding that the Dubník opal could not have been known much before the 16th C, during which the first documented mentions appear in the records. The precious opal noted by Pliny and his predecessors most likely came from Asia Minor and not from Czechoslovakia. Most text is devoted to highly detailed histories of the mines, their tenants and operators, and the cutting and commerce in opals from the 17th C onwards, with most attention paid to the activities of the 19th C. Mining ceased in 1922 but it is the opinion of the author that the deposits are not exhausted. During his recital, the author includes much ancillary information on the miners and their lives, the type opal deposits and occurrences, opal varieties, methods of mining, cutting, famous opals, etc. Text in Czech but summaries in Russian, English, and German. Color plates depict many cut & rough opals, some in jewelry, but like the b&w photographs, they are uniformly poor quality. The bibliography includes references to opal from many world sources and is by no means confined to Czechoslovakian opal. For the latter there are a number of references which are not mentioned in the usual opal literature. Unique and valuable. Rev *J Gemm*, 12, 6, 1971, p 237, "painstaking historical study;" *Min Abstr*, 22, 2, 1971, p 104.

BUTKOVIČ, ŠTEFAN, see SBORNIK NARODNIHO MUZEA

1089. BUTLER, B C M An occurrence of nephrite jade in West Pakistan. *Min Mag*, London, 33, 1962, p 385-93, 5 fig(map). JSL; Yang 1156. Mineralogy of 2 pebbles from Teri Toi River, Kohat district.

BÜTSCHLI, OTTO (1848-1920)

Eminent Ger zoologist; prof zool Heidelberg U; studied history of invertebrates, nematodes, protoplasm, etc; prolific writer.

1090. -----1900 Untersuchungen über die Mikrostruktur künstlicher und natürlicher Kieselsaüregallerten (Tabaschir, Hydrophan, Opal). *Verhandlungen des Naturhistorisch-Medezinischen Vereins zu Heidelberg*, NF, VI Bd, 4 H, 1900, p 287-348, Pls V-VII. Also in print wrap separate, 24.7 x 16.5 cm(9 5/8 x 6 1/2 in). JSL.

Highly important but completely neglected paper on the fine structure of synthetic and natural silica-gels, namely, tabasheer, hydrophane and opal, the latter including precious & common opal. As clearly shown in plate photographs, Bütschli demonstrates the existence of regular, close-packed spherules in

precious opal as previously noted by Behrens, 1871, which see, and he discusses the possible cause of color in precious opal but falls just short of providing the statement that might have made him the first to define the true nature of opal color play, ie, "insofar as the microstructure already described and so apparent is involved in the origin of color play is outside my fund of knowledge, I leave it [explanation] to the physicists." To be sure, the spherules are far too large to cause color play but by inference, smaller sized ones could be but this is not stated here.

BUTT, R A, see STONE, D M

BUTTERMAN, W G, see TRUEB, L F

1091. BUTTGENBACH, H Quelques observations sur les champs diamantifères de Kimberley. *Ann Soc géol Belgique*, 32, Mémoires, 1904, p M1-M14. Also in print wrap separate, 24.4 x 16.1 cm(9 5/8 x 6 3/8 in). JSL. Regional geology, operating mines, rock specimens collected from several pipes.

1092. -----1925

Minéralogie | Du | Congo Belge | [logo] | Bruxelles | M.Hayez, Imprimeur De L'Académie Royale De Belgique | 112, rue de Louvain, 112 | [rule] | 1925

At head of title: "H.Buttgenbach | Professeur à l'Université de Liège. | [double rule]..."

8°: 183 p; 86 fig(photos & crystal drafings), fold sketch map of mineral deposits tip-in at end of text; errata slip loose. Pale bluish-gray wrap, cover title. 24.5 x 16 cm(9 5/8 x 6 1/4 in). Cut. JSL.

Malachite is the principal copper ore in the Katanga; photos of mammilary & stalactitic types;description of malachite p 46-51, with localities; diamond p 108-17, with sources, production figures, alluvial associates and crystal forms(photographs).

1093. BUURMAN, P Mineralization of fossil wood. *Scripta Geologica*, issued by the Rijksmuseum van Geologie en Mineralogie, 12, Leiden 1972. Green paper wrap, centerstapled, 43 p, 38 figs(mostly photos). 26.2 x 18.8 cm(10 1/4 x 7 3/8 in). Cut. Dfl 11.- JSL.

Summarizes previous work, compares views, present results of own investigations on samples of wood replaced in whole or part by silica, phosphatic compounds, carbonate compounds, and oxides. Silica wood can be divided into two groups: replacements by wood-opal("disordered tridymite"), which may also contain chalcedony derived from opal, and those in which chalcedony is the principal phase. Phases identified by x-ray diffraction; surface features delineated by scanning electron microscope(many fine photos in text); references p 42-3, 36 entries.

1094. BYRNE, EUGENE H Some mediaeval gems and relative values. *Speculum*, 10, 1935, p 177-87. JSL. Inspired by Urban T Holmes article in the same journal, 9, 1934, p 195-204, on Middle Ages gems, Byrne attempts to relate the value of a large quantity of gems & jewels belonging to the Hohenstaufens of Sicily to the values of other commodities and services of the same period; detailed list from notarial archives, Genoa.

1095. BYRNE, OLIVER

The | Handbook | For The | Artisan, Mechanic, And Engineer. | By | Oliver Byrne, | Mathematician, | Civil, Military, And Mechanical Engineer; | Author Of "The Practical Metal-Worker's Assistant;" | "The Dictionary Of Machines, Mechanics, Engine-Work And Engineering;" | "The Pocket Companion For Machinists, Mechanics, And Engineers;" | "The Practical Wood-Worker's Assistant;" "The Practical | Model Calculator; " "The Practical Cotton-Spinner," | Etc. Etc. | Illustrated | With Eleven Large Lithographic Plates, | And | One Hundred And Eighty-Five Wood Engravings. | Philadelphia: | T.K.Collins, Jr., No.8 North Sixth Street. | 1853.

8°: 483, [5 blank]p, the last blank f serving as pastedown as does the first blank f at the beginning; there is another blank f just before the tp; both pastedowns covered by thin, bright yellow endpapers with the flys uncemented to the blank ff. 11 tip-in litho pls, 185 text fig. Brownish-purple blind-stamped covers & spine; both covers show a piece of machinery but gilt on front cover only; gilt spine title with blind stampings of gear wheel & gem-cutting machine at foot of spine. 22.8 x 14.7 cm(9 x 5 3/4 in). Cut. JSL.

Cont: front pastedown; blank f; tp; publ data; pref; tab cont; text; index; blank f; back pastedown.

This extremely useful work, as it should be, being nearly a verbatim copy of the much better known 3rd volume of Holtzapffel's *Turning and Mechanical Manipulation*, 1850, which see, treats among other topics all the processes, machines, accessories, grinding & polishing agents, etc, then employed in the lapidary treatment of stone objects and gems. It includes discussions of stone carving, manufacture of bowls & urns, and other ornamental objects, cutting cabochons and faceted gems, and also engraving gemstones and glass. Nowhere in the text is there any indication of the source of this information nor acknowledgment to the Holtzapffel text; this includes the text figures which are also copies. Allibone, *Critical Dict, Suppl*, 1, p 269, lists 10 works by Byrne but fails to mention the present one, perhaps intentionally; it notes that Byrne was "formerly professor of mathematics in the College of Civil Engineers, London."

1096. -----1898, reprint; title change

Handbook | For The | Artisan, Mechanic, And Engineer. | Comprising | The Grinding And Sharpening Of Cutting Tools, Abra- | Sive Processes, Lapidary Work, Gem And Glass | Engraving, Varnishing And Lackering, | Apparatus, Materials, And Pro- | Cesses For Grinding And | Polishing, Etc., Etc. | By Oliver Byrne, | Civil, Military, And Mechanical Engineer, | Author Of "The Practical Metal-Worker's Assistant," "The Practical | Model Calculator," "Elements Of Mechanics," Etc., Etc. | Illustrated | By One Hundred And Eighty-Five Wood Engravings | [rule] | Philadelphia: | Henry Carey Baird & Co., | Industrial Publishers, Booksellers And Importers, | 810 Walnut Street. | 1898.

8°: 463 p (first 4 p blank) + [1 blank]p + 32p publ catalog of bks; 185 wood engrav. Dk blue-green pebbled cloth; cover blind rules; gold spine title; floral pattern endp, pale brown. 22.9 x 14.9 cm(9 x 5 7/8 in). Cut. $5.00. JSL.

Eliminates plates & explanations; some text added to section on grindstones; otherwise identical.

C. History of Jewels, see CHAPPUZEAU, SAMUEL

CABLE, ALICE MILDRED(1878-1952) & FRENCH, FRANCESCA LAW(1871-1960)

A M Cable b Guildford, Engl; strong desire to engage in missionary work, hence traveled to Siansi Prov, China 1902, where joined Evangeline Frances French(1869-1960) another missionary; together they began a highly successful school for girls; after some years, they were joined by Francesca Law French, a sister, and the trio became inseparable; in 1923 they undertook extended, repeated travels into all corners of the Gobi and central Asia, often visiting very remote places; their accounts earned them awards from geographical societies in Great Brit. The authors above wrote several books on their travels & adventures.

1097. -----1927 A parable of jade... London: Paternoster Press, 1927; 2nd impression 1930; 2nd edit 1944, reimpression 1945. Not seen.

1098. -----1947, 2nd edit, 3rd impression

A Parable | of Jade | Mildred Cable | With | Francesca French | [logo] | London | The Paternoster Press | 1947

Edgestapled: 37 p (p [1-2] blank) + [2 blank]p. Col wrap, yellow & brown cover lett; resume; other bks. 18.2 x 12.4 cm(7 1/8 x 4 7/8 in). Cut. 1/6- net. JSL; Yang 1159.

Cont: blank f; tp; publ data; text; blank f.

An appreciation of Chinese jade stressing its spiritual significance & qualities; some data on sources, types, and lapidary treatment. Not free of errors.

1099. CABROL, F & LECLERQ, H Dictionnaire d'Archéologie chretienne. Paris, 1924. Vol 6, cols 794-864, "Gemmes" by Leclerq; Vol 7, cols 1199 ff, "Intailles et camées des affectés." Not seen.

CADDELL, W W, see BLACKBURN, D

1100. CADES, TOMMASO(1772-1868)

Under this name there sometimes appear in the rare book market various collections of engraved gem reproductions that are generally mounted in boxes made to resemble books. Sometimes explanatory literature is passed along with the boxes but all too often it is separated and lost. Furtwängler, *Antiken Gemmen*, 3, p 425-6, provides useful remarks on the Cades impressions but even more valuable information can be found in P & H Zazoff, *Gemmensammler*, 1983, esp p 194-5. Under the urging of Eduard Gerhard(1795-1867), noted German archeologist resident in Italy for many years, the Istituto di Corrispondenza Archeologica, which he and others, founded in Rome in 1828, undertook to publish and sell the Cades impressions 100 at a time, at "very modest" prices, accompanied by a short index with the intention of later publishing more elaborate descriptions. The latter, unfortunately, never appeared. The first two "centuries" were published in 1831 with a short by text by Gerhard (*Annali, Ist Corr Arch*, 1831, p 102 ff), followed in 1834 by two other centuries with short introductions and texts by Gerhard/Cades(ibid, 1834, p 113 ff). In 1839 two more were published with introduction by E Braun(ibid, 1839, p 97 ff). Finally, after a long delay, the seventh and last century was published in 1868 (ibid, 1868, p 116). The impressions were prepared by the gem engraver Odelli who carried on the work after Cades' death but these final "Impronte gemmarie dell'Istituto" were not as high quality as those made by Cades but were valuable for including the best gems found in Southern Russia and the Greek gems preserved in the Hermitage, St Petersburg.

CADET LE JEUNE, or CADET DE METZ, JEAN MARCEL(1751-1835)

Fr mineralogist, politician; b Metz; mbr academies of Strasbourg, Lyon, Vaucluse, Nancy & Athenée des Arts, Paris; mbr of mission to Corsica at commencement Fr Rev. Pogg I, p 356-7.

1101. -----1785

Mémoire | Sur Les | Jaspes Et Autres Pierres | Précieuses | De L'Isle De Corse, | Suivi de Notes sur l'Histoire Naturelle, de la | Traduction du Critias & de divers | morceaux du Timée de Platon. | Par M.Cadet Le Jeune | Avocat Au Parlement de Paris, Chef | Du Bureau Du Commerce &c. A L'Inten- | Dance De Corse, Chargé Par Le Gou- | Vernement Des Recherches Sur L'Hi- | Stoire Naturelle Dans Cette Isle, | De Plusiers Academies. | [woodcut orn] | A Bastia. 1785 | [double rule] | De l'Imprimerie de la Veuve Batini Imprimeur | Du Roi &c. Avec permission.

8°: 239, [1 blank]p; A-P^{8}. Plain, bright blue wrap. 18.8 x 14.1 cm (7 3/8 x 5 1/2 in). Uncut. Large paper, of pale bluish-green tint. USGS Kunz Coll, GS 33-209; JSL; Ward & Carozzi 411; Agassiz II, 2.

Cont: tp; texts; blank p.

The first paper on the jaspers and gemstones of Corsica, p 3-72, describes jaspers and agates, and also the marbles and serpentines of Corsica but is primarily a discussion of their origin in connection with vulcanism; no details are given on color, qualities, or other data useful to the gemologist. The second paper, p 73-148, on natural history topics, mentions agates and jaspers only incidentally to the discussion of rock origin and other geological problems. The remaining papers contain nothing of interest to the gemologist. The use of the term "precious stones" in the title is unfortunate.

CADY, W G, see STRONG, H T

CAESALPINUS, A, see CESALPINO, A

CAESIUS, B, see CESI, B

1102. CAETANO FERRAZ, LUIZ El oro y los diamantes en la America del Sur. *Geologia y Minas*, Buenos Aires, Ano 2, 1907, p 19-47; not seen.

1103. CAHEN, L Données nouvelles concernant la géologie et la géomorphologie du Kasai oriental et l'origine du diamant. *Ann Soc Géol Belgique*, Liège, 74, 4-6, 1951, p 105-22. Not seen. Diamonds in the eastern Kasai, Belgian Congo.

1104. CAHN, A R Pearl culture in Japan. *US Fish & Wildlife Service, Fishery Leaflet* 357, Wash DC, Nov 1949, 91 p(includ cover sheet), fullp sketch, 22 figs, 26 tabs. Typewritten MS, reproduced. 26.7 x 20.5 cm(10 1/2 x 8 in). JSL.

"This is a reproduction of Report No.122, Natural Resources Section, General Headquarters, Supreme Commander for the Allied Powers, Tokyo, issued October 31, 1949."

Important detailed study of all aspects of the Japanese cultured pearl industry immediately after World War II. Includes history, biology, culture, ecological factors, recovery & grading of pearls, making necklaces, by-products, organisation of a pearl farm, control of the industry, production statistics, freshwater

cultured pearls, and important documents reproduced in an appendix, including the Mise-Nishikawa patents. Illustrations: maps of pearling waters, anatomical diagrams, pearl farm apparatus, map of Biwa-Ko showing distribution of the freshwater nacreous mollusk inhabiting these waters. Important not only for its wealth of general information but also because of Cahn's unearthing of the documents which bear on the controversy between Tatsuhei Mise and Tokichi Nishikawa as to which of these gentlemen discovered the nucleus-implant method, the crux of the Japanese culture process. Cahn believes that a quirk of fate, and an illogical interpretation of facts by a Japanese judge, caused support of the Nishikawa patent when actually it was Mise who discovered the process first and should be so credited. Rev W F Foshag, *G & G*, 6, 8, 1949, p 258; ibid, 6, 12, 1950, p 383-4.

CAILLIAUD, FRÉDÉRIC(1787-1869)

Fr explorer, archeol; to Egypt 1815 in service Mehemet Ali to explore Upper Nile and find the ancient emerald mines; latter rediscovered 8 Nov, 1816; to Paris 1822 where wrote on Egypt & antiquities; apptd conservator Nantes Museum 1824. B De Girardot, ***Frédéric Cailliaud de Nantes, Voyageur, Antiquaire, Naturaliste***, Paris, 1875, 45 p; Pogg III, 225.

1105. -----1821

Voyage à l'Oasis de Thèbes et dans les Déserts situés à l'orient et a l'occident de la Thébaïde fait pendant les années 1815, 1816, 1817 et 1818... redigé et publiée par M.Jomard. .. Paris, 1821. "Contenant, I. Le Voyage a l'oasis du Dakel, par M. le Chevalier Drovetti... 2.Le Journal du premier Voyage de M. Cailliaud en Nubie; 3. Des Recherches sur les oasis, sur les Mines d'emeraude, et sur l'ancienne Route du commerce entre le Nil et la mer Rouge..."

2°: XVI, 120 p, 24 engrav views, maps, facsimiles(includes a col pl of mineral specimens). Not seen; details from B quaritch Cat 1015, London, 1981, no 29, who also say the book was published in two cahiers, one of text and the other of plates... intended to be bound together as here; some copies have the imprint of one of the booksellers who shared publication, while at least part of the edition was dated 1822 (see, for instance, Brunet, I., 1466)." A second vol was publ in 1862, Graesse II, 12. The editor of the above, Edme François Jomard(1777-1862), was a Fr archeologist; see remarks below.

1106. -----1822, Engl summary

Travels | In | The Oasis Of Thebes, | And In | The Deserts | Situated | East And West Of The Thebaid; | In The Years 1815, 16, 17 and 18. | [taper rule] | By M. Frederic Cailliaud: | Edited | By M. Jomard, | Member Of The Institute Of France, | &c. &c. &c. | [rule] | With Numerous Engravings. | [rule] | Translated From The French. | [rule] | London: | Printed For Sir Richard Phillips & Co. | [double rule] | 1822. | [Price 3s. 6d. Sewed, or 4s, in boards.]

"Issue no.39, vol.7 of Sir Richard Phillips' New Voyages and Travels."

8°: xii, 66 p; 18 engrav pls(pl 18 is front; pl 4 fold). 22.5 x 14 cm (8 5/8 x 5 1/2 in). Uncut. JSL.

Cont: pl; tp; publ data; introd; engrav notes; pls; text; Drovetti's Dakel excursion(p 66-72).

Jomard, the editor of the main work above, summarizes the importance of Cailliaud's exploration in his introduction: "M. Cailliaud, favoured by a chance prize which fortune allotted him, discovered at Mount Zabarah the famous Emerald Mines, hitherto only known by passages in ancient authors, and from the recitals of the Arabs. Forgotten, as it were, during a lapse of centuries, the French voyager has retraced them, nearly in the same condition wherein the engineers of the Ptolomies left them. He has not only penetrated into subterranean cavities of a vast depth, but he has arrived at causeways, has collected tools, instruments, utensils of various kinds... [also]...he commenced the labours of the mines, and by dint of application and exertion, he is enabled to present to Mohammed Aly Pacha ten pounds of Emeralds." The plates include a plan of the mining town of Sekket(Sikait) showing mines & buildings, a view of the town, a map of the desert region between the Nile River and the Red Sea, and several views of temples at Sikait. In addition to his descriptions of mines, ruins, etc, Cailliaud also gives an excellent mineralogy of the emerald deposits and the mode of occurrence of emerald crystals in the schistose rocks. Landmark in the history of Egyptian emerald.

CAIRE or CAIRE-MORAND, ANTOINE(1747-1794)

Fr commercial lapidary of Briançon, specializing in rock crystal orn. See his autobiogr below.

1107. -----1826 La Science des Pierres Précieuses, Appliquée aux Arts... Paris, 1826 Dewalque 103; not seen.

1108. -----1833, 2nd edit

La Science | Des | Pierres Précieuses, | Appliquée Aux Arts, | Ouvrage | Dans Lequel Les Lapidaires, Les Joailliers, Les Antiquaires, Les | Graveurs Sur Pierres, Les Changeurs, Les Bijoutiers, Les Negocians, | Les Riches, Les Artistes Et Les Amateurs Trouveront Des Préceptes | Instructifs Liés A L'Économie Politique; | Ouevre Posthume De A.Caire, | Membre de plusieurs Académies et Societés savantes, | [orn rule] | Deuxiéme Edition. | [orn rule] | Revue, Corrigée, Mise En Ordre Et Publiée, | Par Leroux-Dufié, | Moins l'homme a fait, moins il a su; | Plus l'homme a su, plus il a pu. | Buffon. | Ornée de seize Planches, | Dessinées par l'Auteur. | Paris, | L'Éditeur, A La Raffinerie De Sucre, | Rue Blanche, N.17, Chaussée-D'Antin; | Carpentier-Méricourt, Imprimeur-Libraire, | Rue Traînée, N°15, Près S.-Eustache. | [orn rule] | 1833.

8°: XV, [1 blank], 423, [1 blank]p; 16 engrav pls bound-in at end. Dull pink wrap, title on cover in orn frame; also on spine; back orn frame encloses wreath. 21.7 x 13.5 cm(8 1/2 x 5 1/4 in). Uncut. Fr 6, 50. USGS Kunz Coll, GS 33-210; JSL.

Cont: 1/2tp; publ data; tp; edit pref; introd; hist of gemstones; text in 4 pts; tab cont; blank p; pls.

The preliminary historical study of gemstones explains Caire's classification scheme for same according to degree of transparency and using the old term "oriental" to designate certain very hard gemstones as compared to those that are similar in appearance but are softer, and called "occidental." Accordingly, the first part is transparent species & varieties, diamond taking most space, followed by many other gemstones, of major and minor importance, which occur in transparent form. The second part treats semi-transparent gemstones, the third those that are opaque, while the last part describes organics as pearl, coral, petrified coral, lumachelle marble, and shells used for cameo carving. There is much valuable, expert information imparted in all sections of this admirable work, for example, under diamond, p 29-92, Caire discusses sorting of stones at the mine, hardness,

defects, sources in the East, history of diamond discovery in the New World, diamonds of Brazil, trade, cutting, cutting styles, and the "star cut" which was invented by him(Pl X, Fig 98). He also gives cut diamond prices according to Berquem and Jeffries, and shows how their values were established in his time. Other stones in this part are corundum, spinel, topaz, emerald, amethyst, garnet, zircon, aquamarine, chrysoberyl, peridot, quartz and tourmaline. It is here that his unfortunate perpetuation of the terms "oriental" and "occidental" bring together some strange bedfellows as emerald, wherein beryl emerald is discussed at the same time as corundum "emerald," the former being softer, hence "occidental emerald," while the corundum, being harder receives the oriental title. Not much need be said about the other parts except to note that most other gemstones are treated therein, as well as the organic materials previously mentioned. On the whole, the work is largely descriptive and there is very little to be found on crystallography or mineralogical characters.

Another issue of the above work is noted upon GS 33-210 Rev, in the Kunz Coll, USGS Library, the publisher being given as "Bechet aîné, Paris, libraire, 1833; [vii]-xv, 423 p; front, xvi pls, 21 cm." Not seen.

1109. -----1883

Autobiographie | De | Caire-Morand | Ou | Mémoire Historique | De La | Manufacture De Cristal De Roche | Établie En 1778 A Briançon | Sous Les Auspices Du Gouvernement | Dédié Aux Jeunes Gens Des Hautes-Alpes | Et Publie Par | Paul Guillaume | Archiviste des Haures-Alpes | [coat of-arms] | GAP | Imprimerie Jouglard Pere Et Fils | 1883

"Extrait du 6e *Bulletin de la Société de'Études des Hautes-Alpes.*

8°: 32p; litho pl. Gray-green wrap, cover title. 24.4 x 16 cm(9 5/8 x 6 1/4 in). Cropped. Only 100 copies printed. LC 24-17527.

Cont: tp; print data; introd; history of rock crystal manufacture in Briançon; plate.

The introduction notes that Caire-Morand was "an artist of great originality of the 18th century who excelled in the art of cutting gemstones and who, after 40 years of prodiguous activity... is entombed in complete obscurity and we do not even know the precise date of his death!" The factory, shown on the lithograph plate, began production in 1778 of ground & polished, carved, and engraved objects from rock crystal, including candelabras, lustres, etc, generally fitted with cut & polished quartz pendants, which received wide distribution throughout Europe. The principal portion of the work consists of "Mémoire Historique de la Manufacture de Cristal de Roche Établié en 1778 a Briançon, p 7-30, written by Caire, and in effect, his autobiography. Elsewhere we learn that Caire wrote his large treatise on gems in the waning years of his life and it was published posthumously by his daughter, Madame Del Pozzo, in 1826, second edition 1833(see above).

CALCEOLARI, recte CALZOLARI, FRANCESCO, see CHIOCCO, A

1110. CALDERÓN Y ARANA, SALVADOR(1854-1911)

Los Minerales | De | Espana |... | Tomo I[-II] | [rule] | Madrid | Imprenta de Eduardo Arias | San Lorenzo, 5, bajo. | [rule] | 1910

8°: VIII, 416 p, 81 fig; 561 p + errata p, figs 82-172. Print wraps, 24.2 x 16 cm(9 1/2 x 6 1/4 in). Cropped. JSL. GS 11-136.

Topographic mineralogy of Spain, based on and amplifying Tenne & Calderón *Die Mineralfundstätten der Iberischen Halbinsel*, 1902, which see; includes diamond, sphalerite(Santander), many quartz varieties, opal, marbles, satin spar, Jumilla yellow apatite, chiastolite, jadeite(?), amber and the famous high-quality jet.

1111. CALEY, EARLE RADCLIFFE(1900-) The Stockholm papyrus, and English translation with brief notes. *J Chem Educ*, 4, 8, Aug 1927, p 979-1002. Discusses provenance of this papyrus and similar documents, ground rules adopted for translation, brief notes and comments, and extended commentary p 999-1002. See O LAGERCRANTZ, 1913, for discussion of contents.

CALEY, E R, see RÖSSLIN, E

CALEY, E R & RICHARDS, J F C. see THEOPHRASTUS

1112. CALIARI, PIETRO

Il Nvovo | Lvme | Delle Gioie. | Opera Vtilissima ad'ogni persona, |cosi à Orefici, & Speciali, | per l'arte pratico. | Composto da Pietro Caliari, | Gioiliero del Serenissimo Du- | ca di Mantoua, e seruito- | re attuale di S.M.Impe- | trice Eleonora. | [rule] | Consacrate. | All' Altezza Serenissima. | Di | Anna Isabella | Duchessa di Mantoua, e Mon- | ferato, e Guastalla, &c. | [woodcut orn] | In Venetia, M. DC. LXXXII. | [rule] | Per Iseppo Prodocimo. | Con Licenza de'Superiori. e Priuilegio. [Venice, 1682]

12°: 116, [4]p; A-E^{12}; orn inits. ch orns. 12.6 x 6.8 cm(5 x 2 3/4 in). Cropped. R Hauck Coll.

Cont: tp; dedic; ltr; 4 part text; tab cont.

A small work on gemstones specially commended to jewelers and makers of jewelry by the author, jeweler to the Duke of Mantua. Part 1 pearls, diamond, ruby, sapphire, spinels, Indian topaz, zircon, garnet & hyacinth. Pt 2 emerald, jacinth, amethyst, topaz, chrysolite, chrysoberyl cat's-eye, opal, girasol, aquamarine, Persian & French turquoise, and rock crystal. Pt 3 coral, amber, cryptocrystalline quartz, lapis lazuli, jade, several ornamental stones. Pt 4 miscellany. Terse, to the point; gives some properties and values according to quality. Rare.

1113. CALIFORNIA DIVISION OF MINES AND GEOLOGY California jade, A collection of reprints. *Spec Publ* 49, Sacramento, 1976, print wrap, centerstapled: 53, [3 blank]p; ca 50 figs(photos, maps, plans). 28.1 x 21.6 cm(11 x 8 1/2 in). Cut. JSL. R A Crippen,"Nephrite jade... Cape San Martin region, Monterey County;" C W Chesterman, "Nephrite in Marin County;" C W Chesterman, "Intrusive ultrabasic rocks... Leech Lake Mountain, Mendocino County," and J R Evans, "Nephrite jade in Mariposa County.

1114. CALIFORNIA STATE MINING BUREAU The structural and industrial minerals of California. *Bulletin* 38, San Francisco, 1906. Cloth or print wrap, sewn or edgestapled: 412, p, fold map, 149 ills. 22.7 x 14.8 cm(9 x 6 in). Cut. JSL.

Includes building stones, some of ornamental interest as marble & serpentine, and in a miscellaneous section, jasper, calcite onyx, quartz crystals, and brief descriptions of gem mines in San Diego County under lithia.

1115. CALL, R ELLSWORTH A geographic catalogue of the Unionidae of the Mississippi Valley. *Bull Des Moines Acad Sci*, 1, 1, 1885, p 5-57. Distribution of pearly mollusks of genera Anodonta, Margaritana and Unio in the many rivers and tributaries of the Mississippi River drainage.

CALLOIS, ROGER(1913-)

Fr writer, editor; founder Coll de Sociologie; Dir Dept Cultural Activities 1967-71; chief editor *Diogenes*; mbr Acad Française.

1116. -----1970 L'écriture des pierres. Genève: Editions d'Art Albert Skira. Not seen.

1117. -----1985

Roger Callois | The | Writing Of | Stones | With an Introduction by | Marguerite | Yourcenar | Translated by Barbara Bray | University Press of Virginia | Charlottesville [1985]

8°: xviii, [2], 108 p; 1 b&w photo, 44 col photos(4 doubl-ep), all in text. Bright greenish-blue unfin cloth, gilt spine title.Col dj, col photo on both covers; spine title; flaps resume; biogr note. 25.4 x 17.9 cm(10 x 7 in). Cut. LC 84-21000; ISBN 0-8139-1050-1. JSL. Cont: l/2tp; front col photo; tp; publ data; tab cont; ill list; pref; 7 chs.

A pleasant, tastefully-prepared book that is remarkable in several ways. While it treats the "landscape" type massive gem materials that are quite familiar to modern amateur and professional lapidaries, it does so with virtually no remarks on their origin or composition, and indeed the author excuses himself in the beginning for his avoidance of technical matters and the use of certain terms which may not be those currently acceptable in mineralogical/gemological circles. Based upon splendid colored photographs of slabbed materials, with size given for each, Callois reflects on how scenes observed in such stones have aroused the wonder of man for several centuries that we know of, and still do. He describes how the famous Italian ruin marbles were especially prized and provides interesting historical details on them as well as upon some examples that were enhanced by painting figures or other elaborations upon them. The materials chosen by Callois include several types of ruin marbles, which are actually very fine-grained limestones, with or without dendrites, the best from Italy, then agates, an Argentinian rhodochrosite slab, scenic jaspers from several areas in the United States, a painting upon lapis lazuli, several septarian nodules, variscite from Utah, and a brownish fine-grained limestone plaque(p 92-3) which Callois, despite doubts voiced by several viewers, claims to be natural despite the numerous human figures thereupon which strongly suggest the intervention of a human hand rather than that of God.

1118. CALMBACH, W FRIEDRICH VON

W.Friedrich Von Calmbach | Handbuch | Brasilianischer | Edelsteine | Und | Ihrer Vorkommen | Rio De Janeiro | MCMXXXVIII | Editor | N.Medawar | Rua São Pedro. 80 - Rio De Janeiro [1938]

8°: 220, [1 blank], [1], [1 blank]p. Pale gray print wrap, map of Brazil on cover, framed. 18.3 x 13.4 cm(7 1/4 x 5 1/4 in). Cut. JSL.

Cont: 1/2tp; tp; publ data; pref; quot; tab cont; introd; tab of birthstones; 2 parts text; tab of properties; index to descriptive pt of text; blank p; publ advert; publ data; blank p.

A handbook of Brazilian gemstones and one of the very few attempts to provide one for this country. The first part is an introductory gemology while the second part describes the gemstones commencing with diamond. A disappointing work because the readily-available information on general principles of gemology which takes up so much text forms too large a part while the locality information, and other useful remarks on native gemstones is too small to be really useful. Localities are often merely mentioned and the author has not taken any trouble to verify their accuracy or to provide more specific information. It cannot compare with Bruno von Freyberg's work on Minas Gerais minerals resources of 1934, which see.

1119. CALOGERAS, JOÃO PANDÍA Contribution a l'étude des exploitations de diamants au Bresil. *Revue Universelle des Mines, de la Métallurgie, des Travaux Publics, des Sciences et des Arts Appliqués a l'Industrie*, Liège, ser 3, 29, trimestre 1, 1895, p 1-21. On diamonds found 1867 in Agua Suja and Bagagem districts: local geology, type alluvial deposits, raised alluvials, potholes, underlying sediments & rocks, mineralogical associates, speculations on origin. Abstr: *Zs prakt Geol*, Jg 1896, p 413; Iglesias & Meneghezzi, 1959, p 64.

1120. CAMBOURI, MANUEL The gem diamond cutting industry in continental United States and Puerto Rico. (Supplement...). *US Dept of Labor. Wage-and Hour and Public Contracts Divisions... Memorandum to Special Industry Committee...*1945. Cover title, iii, 22 p; tabs(part fold), 27 cm. Not seen: from LC 45-107.

CAMEO [title], see FURUYA & CO, LTD

1121. CAMERON, EUGENE NATHAN(1910-), et al

Pegmatite Investigations 1942-45, New England by Eugene N. Cameron and Others. *US Geol Survey Prof Paper* 255, Wash, 1954. Edgestapled: VIII, 352 p; 48 pls(fold maps, back cover pocket); 139 text maps(part col). Pale gray print wrap, cover & spine title. 29 x 23.2 cm(11 3/8 x 9 1/8 in). Cut. GS 54-250. JSL.

Authors of parts: David M Larrabee, Andrew H McNair, James J Page, Glenn W Stewart, Vincent E Shainin. Comprehensive, highly detailed survey of granitic pegmatite bodies in Maine, New Hampshire, Vermont and Connecticut to determine resources of mica, feldspar, beryl and other strategic minerals. First 56 pages on geology, etc, of the pegmatites, after which are detailed descriptions of the very many deposits. Prized by mineral collectors for its precise locality information and mineralogical data, etc, on a large variety of species, including those useful for gems.

1122. CAMERON, RODERICK Perles. *L'Oeil*, 12, 1960, 15 pp; not seen

CAMILLUS, LEONARDUS, see LEONARDUS, C

CAMMANN, SCHUYLER

Lifetime student of Chinese culture; PhD Johns Hopkins U; taught in Changsha 1935-7; widely traveled in China, Inner Mongolia; head Far East sect U Penn Mus; assoc prof Chinese Stud U Penn Grad School.

1123. -----1962

Substance And Symbol | In Chinese Toggles | Chinese Belt Toggles from the | C.F.Bieber Collection | Text by | Schuyler Cammann | Illustrated with Photographs by | Hedda Hammer Morrison and Laura Gilpin | [logo] | Philadelphia | University of Pennsylvania Press [1962]

16°: 256, [2 blank]p; front col pl on glossy f & another(4 col photos) bound-in; ca 230 photos. Bright blue cloth, gold lett, logo on spine; col dj, resume, vita, tab cont. 25.4 x 16.9 cm(10 x 6 5/8 in). Cut. Cat section(photos included) is on glossy paper. LC 62-7202; JSL; Yang 1162.

Cont: 1/2tp; pl; tp; publ data; dedic; tab cont; pref; 12 chs; notes (includes refs); cat sect tp; cat; gloss; index; blank f.

A handsome work on the small button-like objects used for securing containers and the like to waist-bands and therefore similar in purpose, materials, and styles to Japanese netsuke. Treats development, types, materials, symbolism, etc. Ch 5, p 61-9,toggles of ivory and other animal materials; Ch 6, p 71-81, toggles made of stone, including gemstones. Many of the latter are illustrated & described. Comments in G M Born, 1982, p 82-3.

CAMPARDON, LOUIS-ÉMILE (1837-1915)

Fr historian, paleographer; *Dict Biogr Francais*, 7, col 990.

1124. -----1863

Marie-Antoinette | Et | Le Procès Du Collier | D'Après La Procédure Instruite | Devant Le Parlement De Paris | Par | M. Émile Campardon | Archiviste Aux Archives De L'Empire. | [rule] | Ouvrage | Orné De La Gravure En Taille-Douce Du Collier | Et Enrichi De Divers Autographes Inédits | Du Roi, De La Reine, Du Comte Et De La Comtesse De Lamotte. | [logo] | Paris | Henri Plon, Imprimeur-Éditeur | Rue Garancière, 8 | [rule] | 1863 | Tous droits réservés.

8°: viii, 451, [l]p; engrav front tip-in; 4 facs of ltrs(3 fold, one is 4 pp on 2 ff, writing both sides). Print wrap originally? 23.5 x 15.2 cm(9 1/4 x 6 in). Uncut, untrimmed. USGS Kunz Coll, GS 34-205; JSL.

Cont: blank f(?); 1/2tp; publ data; pl; tp; pref; 14 chs; suppls; index of persons; tab cont.

The first detailed, systematic study and account of the events and persons involved in the great diamond-necklace scandal involving the purchase of an enormously expensive piece of jewelry by Marie-Antoinette. The first part of the book deals with persons, places, and events, while the second part presents evidence, mainly in the form of depositions of interested parties to the official government investigation. Funck-Brentano, *The Diamond Necklace*, 1901, states "we owe also our gratitude to our erudite colleague... who has written the most solid work, containing the most exact information, about the Necklace of the Queen(p 16-7)." The frontispiece depicts the necklace, reduced in size of course, but claimed to be an exact proportional delineation of the size, shape, and arrangement of the diamond brilliant gems. Curiously, an almost exact duplicate appears in the 2nd vol of H Vizetelly's *The Story of the Diamond Necklace*, 1867, which book by a quirk of fate appeared only several years afterward. For a modern treatise, see Mossiker's *The Queen's Necklace*, 1961.

1125. CAMPBELL, DONALD F Quartz crystal deposits in the State of Goiaz, Brazil. *Econ Geol*, 41, 8, 1946, p 773-99, 13 fig(maps); also sep issued. JSL. Three major deposits producing clear material suitable for piezoelectric (and gem) purposes; in veins or in alluvium.

1126. CAMPBELL, NORM & STONE, DERRICK

Gemstones | Of | New South Wales | Compiled by Norm Campbell/Derrick Stone | Jacaranda Press | Melbourne/Sydney/Brisbane [facing p:] How and where to find them [Milton, Queensland: 1969]

8°: ix, [1], 125, [blank]p; 41 part-tinted photos; 14 sketch maps part tinted; 31 text sketches tinted; ch orns. Stiff, plasticized wrap, col photo on covers; resume. Endp with sketches & photo, quot. 25.3 x 20.3 cm(10 x 8 in). Cut. USA $3.50; £ 1.50; AUS $3.00. AUS 68-2031; ISBN 7016 0000 4. JSL.

Cont: 1/2tp; tp(2 pp); publ data; tab cont; fwd; ackn; introd; text; gloss; blank p.

Handsome, imaginatively designed popular guide to native gemstones and their localities. There is a brief and almost useless section on gem identification followed by descriptions of the stones and sources, a brief geology of the state, advice on field trips, and a large section, with maps, 8 in all, on promising fields, including those for diamond and opal. A final section provides instructions, with many sketches, on how to cut opal. There is a glossary of geological terms. Rev *J Gemm*, 13, 6, 1973, p 233; *Austral Gemm*, 10, 9, 1970, p 21-2.

1127. CAMPBELL, W M

Minerals | and | Gems | of | Maoriland | by | W.M.Campbell | M.A., Dip.Ed. [np, nd; priv publ, Auckland, N.Z.?; ca 1959]

Edgestapled: 48 p; front glossy col pl tip-in + 3 tip-in b&w photo pls; sketch map. Pale yellow-orange print wrap folding over plain stiff tan wrap; wrap cover title, framed. 21.5 x 13.9 cm(8 1/2 x 5 1/2 in). Cut. Errata slip. AUS $1.50. JSL.

Cont: col pl; tp; print data; sketch map; tab cont; introd; 9 chs.

Lists, with brief descriptions, the gemstones & minerals, also building stones, combustibles, pebbles, limestone, etc, with general chs on gemstones, hints to collectors, glossary. Rambling, disconnected, padded with unrelated material.

1128. -----1970, 4th edit, Auckland: Unity Press, 80 p. Rev *J Gemm*, 13, 5, 1973, p 187. Not seen.

1129. -----post 1970, 5th edit

Minerals |... | W.M.Campbell, M.A., Dip.Ed. | Hon.Member A.G.I.S. and North Shore Rockhound Club | Fifth Edition | Published And Printed By The Unity Press Ltd, Auckland, N.Z. [nd]

Cementb: 84 p; 6 glossy pls(4 col); 7 text sketch maps. White wrap, col photos on covers; dedic & captions inside front cover. 21.2 x 13.7 cm(8 3/8 x 5 3/8 in). Cut. JSL. Cont: tp; introd; tab cont; 16 chs.

Greatly enlarged, rewritten, new illustrations, the color pls now of rough, kauri polished pieces, faceted & cabcochon gems;

more rough of gem & minerals specimens on b&w pls. Additional topics now covered but as before, none in depth.

1130. CAMPIGLIA, GIOVANNI DOM Raccolte di num. 200 tavole intagliate, contenente le gemme antiche che si conservano nella Real Galleria di Firenze. - Florence, 1790, 2 part. in fol., fig. Vinet 1643; the pls are from Gori *Mus Florentinum*, which see. Not seen.

1131. CAMPOS, LUIZ FELIPPE GONZAGA DE Jazidas diamantiferas de Agua Suja, Bagagem, Estado de Minas Geraes. Rio De Janeiro, 1891, 52 p, 2 maps. Transl: The Agua Suja diamond deposits, *Brazilian Mining Review*, I, Jul 1903-Apr 1904, p 88-92, 159-61, 175-6, 185-6, 198-202; also: *Mining J, Railway and Commercial Gazette*, London, Jul 9, 1904, p 23-30. Not seen; from A D Gonsalves, *Bibliogr Bras*, 1918, 36.

1132. CANCELLIERI, FRANCESCO GIROLAMO (1751-1826) Notizie sopra l'origine e el'uso dell'anello pescatorio e degli altri anelli ecclesiatici... Roma: Bourlie, 1823, viii, 88 p; chs 1-4 and 10 deal with official rings in the Roman Church, with many references to documents and earlier publications. Not seen.

1133. CANES, JULES J

basic | notes | on | diamond | polishing | Devised by | Jules J. Canes | Published 1964 [South African Diamond Workers Union, Johannesburg, Republic of South Africa]

Wire-spiral binding, loose leaves: 92, [1], [1 blank]p; ca 100 illust, part col; 1 photo; transp plastic overlay in front cover pocket. Black card covers, front gold title & machinery design; back cover plain. Oblong: 17.7 x 21.7 cm(7 x 8 1/2 in). Glossy paper. JSL.

Cont: overlay inside front cover + tp; index; pref; fwd; introd; ackn; intent of hdbk; 18 chs; bibliogr notes; notes & memo blank pp; diploma certificate in red & black; blank p.

Clearly written & illustrated diamond-cutting instructions for apprentices and workers in the South African diamond industry, Provides general facts about diamond, vocabulary of trade terms, step by step cutting instructions so specific that one is led to believe that this book should suffice to start a beginner on his way to becoming a cutter if otherwise outfitted with the necessary machinery.

1134. CANESTRINI, GIOVANNI(1835-1900) & CANESTRINI, RICCARDO(1857-1891)

... Il Corallo. Roma: Tip. eredi Botta, 1883. 170 p., fold. map. 22 1/2 cm. At head of title: "Giovanni e Riccardo Canestrini. Estratto dagli *Annali dell' Industria e del Commercio* del 1882." LC 6-31747. Not seen.

CANINI, GIOVANNI ANGELO(1617-1666) & CANINI, MARC ANTONIO

G A C. noted Ital artist/engraver, pupil of Domenichino; to France with Cardinal Chigi; under auspices Jean Baptiste Colbert(1619-1683), the eminent French statesman & financier, prepared his *Iconografia*, which term Canini coined and first used here; comments on his work in Zazoff, *Gemmensammler*, p 34. *Biogr Univ*, 7, p 18-19.

1135. -----1669

Iconografia | Cioè | Disegni d'Imagini de Famosissimi | Monarchi, Regi, Filosofi, Poeti | ed Oratori dell'Antichità, cauati | Da | Giovan Angelo Canini | Da Frammenti de Marmi Antichi, e di Gioie, | Medaglie, d'Argento, d'Oro, e simili Metalli, | con le proue dell'istesso autenticate da più | classici Autori di quei medesimi secoli. | Data in luce con aggiunta di alcune Annotationi, da | Marc' Antonio Canini Fratello dell' Autore. | Alla Maestà Cristianissima | Di | Lodovico XIIII. | Potentissimo, & Inuittissimo Rè di | Francia, e di Nauarra. | [woodcut orn] | In Roma, Nella Stamparia d'Ignatio de' Lazari. 1669. | [rule] | Svperiorvm Permissv.

2°: [6]f + p 1 to p 33, p [34] unnumb + f 34 [sic], f 35 [there is no f 36], f 37 to f 133; pi^4, a^2, A-F f^4; full engrav title, bound-in ahead of press title, done in a sketchy, rather crude, yet pleasing allegorical style & signed by Marc Antonio Canini; 115 engrav pls bound-in, with pls 37 & 101 duplicated but printed from different plates. Pls to no 103 bound-in with text at appropriate points, but remainder bound-in after text. Numerous woodcut head- and tailpcs; inits. 32.7 x 22.2 cm(12 7/8 x 8 3/4 in). Cut. JSL.

Cont: engrav tp; printed tp; dedic; pref by Marc Antonio Canini; approbations; tab of antique gems on [2]f; text with pls; pls 104-13.

A work which collected from various sources likenesses of famous persons of antiquity, somewhat less than half being taken from engraved gems as shown in the list in the front matter. The remainder were taken from marbles, coins, medals, etc. The text commentaries are by G A Canini up to f 90, as indicated in the footnote on this leaf, with the rest by his brother Marc Antonio. The plates are very well done but their insertion and the planning of the book as a whole left much to be desired as witness the curious paginations and the post-press impressions, apparently done by hand, of Roman numerals at the heads of text leaves I-LXXI, which, however, were corrected in succeeding leaves by regular press impressions. A remarkable feature of design is the large variety of woodcut tailpieces of many types. Mariette, *Traité Pierres Gravées*, 1, p 430-2, 467, provides an extended commentary on this production.

1136. -----1731, French edit

Images | Des Héros | Et Des | Grands Hommes | De | L'Antiquité. | Dessinées sur des Médailles, des Pierres antiques & autres | anciens Monumens, | Par Jean-Ange Canini. | Gravées par Picart Le Romain &c. | Avec les observations de Jean-Ange & Marc-Antoine Canini, données | en Italien sur ces Images, diverse Remarques du Traducteur, & le | Texte original à côte de la Traduction. | [rect engrav vignette, signed by B.Picart, 1729] | A Amsterdam, | Chez B.Picart & J.F.Bernard. | M. DCC. XXXI. [1723]

4°: VI, 377, [l]p, $*^3$, A-Aaa^4, Bbb; bound-in engrav front portr of Etienne Picart; 116 engrav pls bound-in, the same as in above but all retouched; new last pl of a young woman with scroll bearing a motto. As in previous edit the final 10 pls, also without letterpress, are bound-in at end. 28.4 x 22.8 cm(11 1/4 x 9 in). Cut. JSL.

Cont: pl; tp; dedic; text tp; text & pls to p 377; index to figures; Pls CVI-CXV; young woman pl.

This edition is noteworthy for containing the original Italian text with parallel translation by De Chevrieres. The plates are considerably improved mainly by more careful printing using lighter inking and the retouching of backgrounds which in the Italian edition are crudely lettered and numbered with background lineation uneven and wavering, all in striking contrast to

the delicacy and sureness of line displayed within the oval portraits proper. In the present edition, the original crude Arabic numerals are replaced by Roman numerals, the extremely sketchy titles now replaced by much more carefully executed lettering and the engravers names also replaced. The original frontispiece plate has disappeared. The inference is plain: in the Italian edition, the original oval portraits were enclosed in backgrounds executed by a hand other than that employed in the portraits, and a poor one at that, while in this edition the most obvious faults in the backgrounds, namely the numerals and letters, were corrected but the many parallel horizontal lines were left largely untouched. The spelling of Guillaume Valet, one of the engravers, is given as "Vallet" in the first edition but corrected here. The new frontispiece of Etienne Picart (1632-1721) is by his son, Bernard, and executed with the rare skill for which he is famed. Brunet I, 1541; Graesse II, p 35; *Encycl Brit*.

CANNEGIETER, HENDRIK(1691-1770)

B Steinfurt in Westphalia; rector of gymnasium at Arnhem; Early Europe historian; prolific author. *Biogr Univ*, 7, p 21-2.

1137. -----1764

Henr.Cannegieter | De Gemma Bentinckiana | Item | De Iside Ad Turnacum Inventa | Nec Non | De Dea Burorina, | Ad Amplissimum Virum | Wilhemum Pauw, | Supremae Hollandorum, Zelandorum | et Frisiorum Curiae Senatorem. | [3 rules] | Trajecti ad Rhenum | Apud Guiliem.Henr.Kroon, | Bibliopolam MDCCLXIV. [Utrecht, 1764]

8°: VI, 69, [1 blank]p, $*^3$, A-D^8 E^2, F. 21.8 x 13.5 cm(8 5/8 x 5 3/8 in). USGS Kunz Coll, GS 34-356.

Cont: tp; dedic; Bentinck gem text to p 10; other texts; blank p.

Charlotte Sophie (von Aldenburg) Bentinck, Countess of Aldenburg (1715-1800).

1138. CANNEY, MAURICE The life-giving pearl. *Manchester Egyptian and Oriental Society J*, 13, 1930, p 43-62; early symbolism of pearl; not seen.

1139. CANNON, BART

Minerals | Of | Washington | Written And Illustrated | By | Bart Cannon | 1975 | Cordilleran | Mercer Island, Washington

Cementb: [2 blank], [2], iii, 184 p; 3 sketch maps, block diagr, 28 figs, 76 realistic sketches of mineral spec. Heavy white wrap, cover title. 21.5 x 13.8 cm(8 1/2 x 5 3/8 in), Cut. $4.95. JSL.

Geological provinces, type mineral deposits, descriptions and occurrences; includes the following gemstones, nephrite, amber, beryl, corundum, diamond, labradorite, obsidian, opal, quartz, serpentine, spessartine, turquoise and zoisite. Much on crystalline quartz but little information on chalcedonic varieties which are abundant. Biblio, p 181-4, ca 70 entries.

1140. CANNON, W F & MUDREY, M G, Jr The potential for diamond-bearing kimberlite in northern Michigan and Wisconsin. *USGS Circ* 0842, 1981, 15 p, 7 fig, 29 refs. Reviews previous diamond discoveries, including remarks on lack of sound geological descriptions of sources, cases of fraud, absence of recent finds, and suggests that in view of recent discoveries of kimberlite bodies there may be a kimberlite field that might be the source of the diamonds found in glacial drift. Reprinted in Van Landingham, *Geol World Gem Deposits*, p 97-111, which see.

1141. CANOVA, LEON J

Chivor-Somondoco | Emerald Mines | Of Colombia | [col photo emerald crystal] | (Approximate size) | Emerald Crystal Weighing 630 | Carats taken from Chivor Mine | December 1920 | Compliments of | Colombian Emerald Syndicate, Ltd. | 90 West Street New York [1921]

Title from wrap; there is no title within.

Centersewn, green silk cord: 30 p + [1 blank]f; 13 photos, claims map. Note: p [5-8] consist of a doublef folded, p [7-8] facing, and with orn border enclosing text. Pale mottled brown wrap, title & emerald crystal (the photo is raised). 27.5 x 20.5 cm(10 3/4 x 8 in). Cropped. JSL.

Cont: blank f; title of company with copyright date; ltr to shareholders signed in facs by C K MacFadden; forwarding ltr to same by author; doublef with "Legend of the Discovery of Emeralds in the Colombian Andes;" text; claims map; blank f.

MacFadden's letter summarizes the company's work and introduces the author who was instrumental in arranging transfer of the Chivor properties from Colombian owners to the company. Aside from the legend, the text gives a historical sketch of discovery & exploitation of emeralds at both Muzo and Chivor, leases & litigation, loss of mines, the German period of work, acquisition by Americans, various reports and quotes from articles concerning the deposits. Almost all the photographs, printed in greenish-gray ink, depict opencast workings and miners at work. Rare and historically extremely important.

1142. CAPE OF GOOD HOPE COLONY. SELECT COMMITTEE ON ILLICIT DIAMOND BUYING IN GRIQUALAND WEST... Report... Cape Town, Government Printer, 1882, 135 p; not seen.

1143. CAPE OF GOOD HOPE COLONY. PARLIAMENTARY REPORTS, Reports by the Inspectors of Diamond Mines in the late province of Griqualand West, for the Year 1881, Cape Town, Report G.27-'82, 33 p, 3 pls, ... [several dozen reports]... 1903, G.75-'04, 38 p. Complete list in M Wilman, *Catalogue of Printed Books*, etc, 1905, which see.

1144. CAPELLO, ANTONIO Prodromus iconicis sculptilium gemmarum, Basilidiani amulectici atque talismani generis, de musaeo Antonii Capello Senatoris Veneti. Venetiis: Typis Hieronymi Albriccij, 1702. (6]pp, (44) pls, each fig numbered consecutively; front (apparently intended for an engraved title-page); folio. Not seen, from Goodland, p 107. Mariette 1, p 285, 452. Marlborough Rare Books, London, Cat 113, 1985, no 102 gives "2 ff" and notes and "not in Berlin Kat., Cicognara or Morazzini." See also comments of Zazoff, *Gemmensammler*, p 33.

CARDANO, GIROLAMO (1501-1576)

Ital polymath, encyclopedist; b Pavia; MD at Padua 1526; despite poverty-stricken existence, wrote more than 200 works on medicine, physics, mathematics, philosophy, religion & mosic; establ enduring reputation for mathematical contributions and innovations; d Rome.

1145. -----1550 De subtilitate, Nuremberg, first edition. Because of its substantial content of information on gemstones, this work is commented upon and the gemological content described in a typical edition(see below). Along with his *De rerum varietate*, 1st 1557, which is in the nature of a supplement, the *De subtilitate* is an encyclopedia of a large variety of knowledge on such widely diverse topics as cosmology, mechanics, physics, natural history, cryptology, etc. DSB, 3, p 66: "a mine of facts, both real and imaginary; of notes on the state of the sciences; of superstition, technology, alchemy, and various branches of the occult." Thorndike, *History of Magic*, 5, p 570-1, remarks that Cardano's information on gemstones is repetition of material gleaned from previous writers, mostly on marvelous virtues attributed to gems. A popular work, Ferguson, *Bibliogr Notes*, 2, suppl 1, p 21-3, lists 18 editions which appeared from 1550 to 1642, all in Latin or French. More infonnation and comments on this work may be found in Ferguson's *Bibliotheca Chemica*, 1, p 141-3(good biogr notes) and in *Biogr Univ*, 7, p 121-4.

1146. -----1582, Basel

Hieronymi | Cardani Medio- | Lanensis, Civisqu'Ve Bono= | Noensis, Medici Clarissimi, | De Svbtilitate Libri XXI. | Iam Postremo', | Ab authore plús quàm mille locis illustrati, nonullis | etiam cum additionibus. | Addita insuper Apologia aduersùs calumniatorem, qua | uis horum librorum aperitur. | [circ portr of Cardano, date 1553, age 49] | Avthoris Carmen. | ...[4 lines of verse]... | Cum Gratia & Priuilegio Caes.Maiest. | Basileae, | Per Sebastianvm Hen= |Ricpetri [sic].

Colophon; "Basiliae, | Per Sebastianvm Hen= | Ricpetrianno Salvtis | Nostrae Instavratae, | CIↃ. IↃ. XXCII."

2°: [24], 626, [2]p; alpha-gamma^4, a-z^4, A-Z^4, Aa-Zz^4, AA-HH^4, II^6. Numerous small text woodcuts; publ mark last p. 33 x 21 cm(13 x 8 1/4 in). Cut. JSL.

Cont: tp; dedic; ltr; tab cont & comparison contents with those of *De rerum varietate*; indexes; text to p 590; blank f; suppl to p 626; colophon; publ mk.

Gemstones are mentioned in Book V in connection with their magical powers (p 148), and why they originate in eastern or southern climes(p 149), with descriptions, sources, lore, etc, for jet and amber in a fairly large section(p 160-3). Incidental mentions elsewhere. Main gemological contribution however, in Bk VII, De lapidibus, p 192-231, a rambling through a poorly organized presentation of facts and fancies on many gemstones, including the standard gems of value, pearl, opal, ornamental stones, and some stones that display curious patterns (fossils) or are used in buildings. Topics treated are kinds of gemstones, sources, colors, water inclusions in gemstones, and fakes and adulterations.

1147. CARGILLE LABORATORIES. The Cargille-Allen gem testing set comprising the refractoscope... Cargille specific gravity liquids. Published by R.P. Cargille Laboratories, Inc., 117 Liberty St., New York 6, N.Y. [1957] Centerstapled: blank f + VII, 36 p, 5 figs, loose photo of apparatus, print wrap, 22.9 x 15.2 cm(9 x 6 in) Cut. $1.00. JSL. Properties of gemstones, how to use their "refractoscope"(immersion cell & crossed polaroid filters), tables of property constants, glossary, price list, biblio, special test set for diamonds, index; p 34-6 "notes."

1148. CARL, S Die Flussperlmuschel (*Margaritana margaritifera* L.) und ihre Perlen. Die Perlmuschel des Odenwalds und deren Geschichte seit der Einsetzung durch Kurfürst Theodor von der Pfalz(1760). *Verhandlungen Naturwissenschaftlichen Vereins in Karlsruhe*, 22, 1910, p 123-220; not seen, ref from G Ranson.

CARLEY, K, see CAYCE, E, 1979

1148A. CARLISLE, NORMAN & MICHELSOHN, DAVID The | Complete | Guide to | Treasure | Hunting | Norman Carlisle · David Michelsohn | Henry Regnery Company · Chicago [1973}

16°: [5]. [1 blank], 280, [2 blank]p; 98 sketch maps, 22 photos & 4 drawings on 8 glossy f bound-in. Pale red/orange cloud-pattern pebbled paper over bds, coppery lett on spine, brownish-orange dj with photos, flap resume, vitas. 22.6 x 15.2 cm(8 7/8 x 6 in), cut. LC 73-6452.

Cont: 1/2tp; tp; publ data; tab cont; 13 chs; 8 append(includ periodicals & bks); index; blank f.

Popular treasure-hunting inspirational guide with numerous anecdotes of previous finds and suggestions as to where one should look for additional recoveries of both man-made treasures and gemstones, gold, pearls, etc. Gemstones are treated in Ch 8, with brief descriptions, many generalized locality sketch maps, famous finds, especially "jackpot gems," treated in Ch 9, and others in Ch 10 on minerals and crystals, these chapters spanning pp 131-210. While containing useful information in places the information on gemstones and pearls is condensed and not to be compared to that available in other contemporary and far more expert accounts.

CARLOVA, J, see TOUCHÉ-SKADDING, 1966

1149. CARLSON GULDVARUFABRIK GÖTEBORG, K & E Guld och ädla stenar. Utgiven Av K.& E.Carlson Goldvarufabrik, Göteborg. [1943]. Pale tan wrap over bds, red & black cover lett with diamond; black lett spine. 68, [3], [3 blank]p; 24 col pls in text, 27 text figs. 17.8 x 12 cm(7 x 4 3/4 in). Cut. O Dragsted libr. Handy reference book for jewelers & craftsmen in the trade; describes principal stones, Swedish hallmarking, data on precious metal stock shapes, gold karat data, precious metal properties, etc. The col pls from A & O Dragsted *Guld og Aedle Stene*., 1947.

1150. CARMICHAEL, ELIZABETH Turquoise mosaics from Mexico. Trustees of the British Museum, London, 1970. Square 8°: 40 p(ist 2 p blank), 8 col ill, 23 fig, 2 sketch maps(one inside back wrap). White paper wrap, title & col photo on cover, caption inside front cover; back cover photo. 21 x 21 cm(8 1/4 x 8 1/4 in). Cut. JSL. The mosaics are appliquees to masks made by the pre-Conquest Indians of Mexico; discusses their acquisition and describes several examples. Biblio p 38, 34 entries.

CARNEGIE, HELENA

James Carnegie(1827-1905) educ Edinb Acad & Sandhurst; brief military career; rebuilt Kinnaird Castle, Brechin, Scotland after death of father; zealous collector of engraved gems, particularly intaglios; Earl of Southesk 1855; peer of the realm 1869; FGS; Hon LLD St Andrews & Aberdeen. DNB.

1151. -----1908

Catalogue Of The | Collection of Antique Gems | Formed By | James Ninth Earl of Southesk K.T. | Edited By His Daughter Lady Helena Carnegie | In Two Volumes | Vol.I [-II] | Egyptian Assyrian Syrian Phoenician | Greek Etruscan Roman | London | Bernard Quaritch | 11 Grafton Street Bond Street W. | MCMVIII [1908]

4°: Vol I: xiv, 226 p + 17 photo pls bound-in; Vol II: vi, 152 p, 11 pls. Orig in wraps?. 25.3 x 19 cm(10 x 7 1/2 in). Cropped. JSL.

Cont: Vol I: 1/2tp; tp; tab cont; pls list, pref; catalog; index; pls. Vol II: 1/2tp; tp; tab cont; pls list; catalog; index; pls.

Describes 449 gems, plus an additional 159 cylinders: material, shape, dimensions, provenance, etc. The collection was begun by the Earl in 1878. Several specimens are illustrated in works of C W King, the Hope Collection catalog by B Hertz, and others, as mentioned in the preface to the first volume. Good quality plates depict as many as twelve gems per plate.

1152. CAROSI, J Sur la génération du silex et du quarz en partie. Observations faites en Pologne. Cracovie: I. Grebel, 1783, 94 p, ill. Not seen: from Ward & Carozzi 426. Johann Philip von C(1744-1801). Pogg I, 382.

1153. CARPENTER, F M, FOLSOM, J W, ESSIG, E O, KINSEY, A C, BRUES, C T BOESEL, M W, & EWING, H E Insects and arachnids from Canadian amber. *U Toronto Studies, Geol Ser* 40, 1937, p 7-62, 12 fig. Also in reprint, printed gray paper, 23.5 x 15.5 cm(9 1/4 x 6 1/8 in). JSL. Describes insects & arachnids, but also contains a brief history of the discovery of the site at Cedar Lake, Manitoba, with remarks on the deposit and descriptions of the amber specimens; some gem quality pieces are large enough to cut into cabochons.

1154. CARPENTER, WILLIAM BENJAMIN(1812-1885) On the microscopic structure of shells. *Rept of the British Association for the Advancement of Science*, London, 14, 1844, p 1-24, Pls I-XX; 17, 1847, p 13-135, Pls I-XX. The author, eminent British zoologist/naturalist, specialist in the fine structure and microscopy of organic materials, observed surface features on nacreous shells similar to those reported by David Brewster, *Phil Trans Roy Soc London*, 1813, p 397-418, 1814.

1155. CARR, S G; OLIVER, J G; CONOR, C H H & SCOTT, D C

Andamooka Opal Fields | The Geology of the Precious Stones Field | and | The Results of the Subsidised Mining Program | S.G.Carr | J.G.Oliver | C.H.H.Conor | D.C.Scott | Report of Investigations 51 | ... | D.J. Woolman, Government Printer, South Australia 1979 [Adelaide]

At head of title: "Department of Mines and Energy | Geological Survey of South Australia..."

Cementb: 88 p + [4]p labeled "Notes." 8 fig, 24 pls(col); col fold geol map in back cover pocket; 2 tab. Printed, photo wrap. 29.7 x 20.7 cm(11 5/8 x 8 1/8 in). Cut. JSL.

Cont: tp; ltr; tab cont & ill list; text; "notes."

Provides latest geographical/geological information on this important and still productive field, with details on a government program of shafts & tunnels to delineate and expand field boundaries; excellent color photos of mines and surroundings.

1156-7. Not used.

CARRANCO, JUAN CAVALLERO, see MATHES, W MICHAEL

1158. CARTER, N L Origin of diamonds in the Canyon Diablo and Novo Urei meteorites. *J Geophysical Res*, 69, 12, 1964, p 2403-21. Gill p 45.

CARTHEUSER, FRIEDRICH AUGUST(1734-1796)

Ger phys, prof medicine & surgery Halle 1734; also in Giessen 1766; studied mineralogy, publ several works in this field. *Biogr Univ* 7, 233.

1159. -----1771 Mineralogische Abhandlungen, 2 v, Giessen, 1771, 1773, containing vol 1, "Anmerckungen über den Chrysolith," p 94-106, "Von einigen Edelsteinproben," p 107-16, "Vom Ursprunge des Bernsteins," p 172-90. Not seen. Pogg I, 385; Agassiz II, 31.

CARTHEUSER, JOHANN FRIEDRICH (1704-1777)

Ger phys, prof medicine Frankfurt am Oder; prolific writer in medical subjects; father of Friedrich August C above.

1160. -----1735 Specimen Amoenitatum naturae... Abhandlungen aller Merkwürdigkeiten der Nature und Kunst, Lect II. "Von der Natur, verschiedenen Arten, Generation und Nutzen des Birnsteins." Halle: Johann Andreas Bauern, 1735, 4°, 81 p. Not seen. Agassiz II, 31; Böhmer I, 1, 267.

1161. CARTIER INCORPORATED

Retrospective | Louis Cartier | Masterworks of Art Deco [New York: Cartier Incorporated, 1982]

4°: [72]p; 62 col photos & 65 b&w photos; unfin dk blue cloth, gold spine title; pale gray textured endp; white dj with col photo on cover. 29.8 x 21.7 cm(ll 3/4 x 8 1/2 in). Cut. LC 82-72358. "This volume was printed in October, 1982 in a limited hardcover edition of 1900 pieces, of which this is number..." JSL(no 629).

Cont: limit edit note; col photo; tp; captions for photos; portr L Cartier; introd; catalog; ackn & publ data.

A beautiful production, splendid color photographs of many of the objects designed by Louis Cartier of the famous jewelry firm and introduced by Hans Nadelhoffer of Paris, although his exact contribution is not clearly stated. The latter gives the history of the firm and its remarkable productions in the early decades of the 20th century. Many of the objects employ high quality gem materials and sometimes including very large faceted gems, carvings, and the like, mostly in excellent taste but some of the sculptures are not wholly pleasing to this reviewer at least. There is a large selection of Cartier's famous "mystery" clocks. Despite the obvious care taken in the production of this book, there are curious lapses, eg, no pages are numbered, there is no table of contents nor index, no writers are specifically credited with any contribution to the text and catalog, and the use of the word "Museum" suggests that an exhibition was held somewhere at some time, but the reader is left in the dark. However, an article in *Connoisseur*, Nov 1982, p 83-91, about the exhibition, noted that it took place at the Los Angeles County Museum of Art between Dec 2, 1982 and Feb 13, 1983.

1162. -----1982, same, in cementb, stiff col wrap, p size same, etc. The half title now reads "Retrospective Louis Cartier"

instead of the limited edition note. JSL. Rev Roger van Eeghen, *INDIAQUA*, no 46, 1907, I, p 155.

CARTLIDGE, B, see WARD, ANNE, et al

1163. CARTON, JOHN Englischer Juwelier, Kenntniss, Werth- und Preisschätzung aller Edelsteine, Perlen und Corallen, ins. Deut. übersetzt nach der 10 ed. 12mo. Grätz, 1818. From Emanuel's *Diamonds and Precious Stones*, 2nd edit, p 239. Not seen. Also given as: "Englischer Juwelier, ins Deutsche übersetzt von einem deutschen Juwelenhändler. Grätz, 1818. Beim Buchhändler Franz Ferstl in Commission." Not seen, from Heinz Biehn's *Juwelen und Preziosen*, 1965, which shows a reproduction of a plate from this work facing p 409.

1164. CARTWRIGHT, ALAN PATRICK

Diamonds | and | Clay | A P Cartwright | [logo] | Purnell | Cape Town · Johannesburg | London · New York [1977]

8°: [7], [1 blank], 195, [2], [3 blank] p; photo front + 53 other photos in text; 13 col photos on 4 glossy f bound-in but not includ in pag. Brown cloth-type paper over bds, gold logo on cover, gold title & logo spine; brown endp. Col dj, photo of Cullinan plant both covers; flap resume; vita, other author bks. 24.2 x 18 cm(9 1/2 x 7 in). Cut. ISBN 0 86843 017 X. R 6.50. JSL.

Cont: 1/2tp; front; tp; publ data; ackn; tab cont; 18 chs; epilogue; photo; caption; 3 blank p.

The history of the Cullinan Group of Companies, 1902-77, the title reflecting the transition from an interest in diamond mining in South Africa in the early period to concentration on the mining of clay and the production of various articles therefrom. The first parts of the book are of interest to gemologists because they describe the early career of Thomas Major Cullinan(1862-1936) and his family and his later founding of various companies in South Africa, including the Premier (Transvaal) Diamond Mining Company Ltd, acquirers and exploiters of the Premier diamond mine, wherein, as may be recalled, the largest rough diamond was ever found, the Cullinan of 3106 carats on January 5, 1905. Thomas, now Sir Thomas, left behind a large family that carried on the clay industry which by now had become a large and varied enterprise.

CARYOPHILUS, BLASIUS, or BLAISE, recte: GAROFALO, BIAGIO (1677-1762)

B Naples; Catholic priest; achieved "perfect command" of Latin, Greek, Hebrew; wrote learned treatises on aspects of life among the ancients; d Vienna. *Biogr Univ* 16, 492-3; Pogg I, 847.

1165. -----1738 De antiquis marmoribus opusculum qui accedunt dissertationes IV. Vienna, 1738, 4°. Not seen.

1166. -----1743 Opuscula, de marmoribus antiquis, de thermis Herculanis & Thermarum usv. 3 books in 1. Utrecht, Besseling, 1743. 4°: (vi), viii, 126, (viii), 45, (viii), 38 p. With 15 engrav vignettes. Brunet 299913. Not seen, from Sims, Reed, Fogg, London, Cat 80,1985. Agassiz II, 35.

1167. -----1768, extract XXV. Blasius Caryophilus von der Zeit der Erfindung einiger Steinbruche, ihren Erfinden, von denen, die zur Strafe darinnen arbeiten müssen, von den Ausehern der Marmorbrüche, von den Maschinen, Krankheiten und Handwerkzeuge der Steinmetzen, von der Färbung und Aetzung des Marmors, und von der Kunst, Schrift darauf einzuhauen. Aus dessen Werk de Marmoribus antiquis. In: *Mineralogische Belustigungen, zum Behuf der Chymie und Naturgeschichte des Mineralreichs*, 1 Bd, 1768, p,385-426. JSL.

On marble quarries and factories in antiquity: when discovered and worked, slave labor, working and living conditions, quarrying tools and methods, sawing of marble, making iron tools, coloring marble, inlays and incised work, cementing, and sculpture, along with remarks on types of marbles and names.

1168. -----1770, extract XI. Blasii Cariophyli Schrift von den Marmoren der Alten. Aus dem Latein. übersetzt. Ibid, 5 Theil(Bd), 1770, p 202-90. JSL. Takes more material from the basic work and generally discusses problems of marble nomenclature, the numerous kinds employed in antiquity, where they came from, and also discusses alabaster, porphyry, black or "Thebes" marble(probably an igneous rock), basalt, Lucullan marble, ophite, syenite, Italian, French, Spanish marbles, etc. These two articles provide firstly, the human factors involved, and secondly the natural history of the stones.

1169. CASABÓ, JUAN Manual del joyero...Primero edicion. Not seen.

1169A. ----- 1944 Manual del joyero.. II Edicion... Editorial Albatros, Maipu 391, Buenos Aires, Argentina, 1944. Paper; 356 p, ill(part col). Not seen.

1169B. ----- 1953

J. Casabó | Manual | del | Joyero | Obtencion, Recuperacion & Afino De Los Metales | Preciosas. Aleaciones, Soldaduras, Carac- | Teristicas De Los Diamantes Y Piedras| Preciosas De Color. Lapidacion. Estu- | Dio De Todas Las Especialidades | De Las Industrias De Joyero Y | Bisuteria Y De Las Materias | En Ellas Empleadas. | Aplicaciones De Las | Piedras Precio- | Sas En La In- | Dustria. | III Edicion | Corregida Y Aumentada | [star] | Editorial [logo] Albatros | Maipu 391 [logo] Buenos Aires [1953]

8°: 428, [28 advert]p (first f blank); tip-in glossy col pl front; 59 fig. Paper wrap, printed in blue & white; col dj with front col pl on front, adverts. 22.8 x 15.9 cm(9 x 6 1/4 in). Cut.

Cont: blank f; 1/2tp; other bks of author; col pl; tp; publ data; 3 prefs; text; index(tab cont); adverts

A comprehensive self-instruction text for members of the jewelry trades. Treats all the raw materials and processes used in their preparation and manufacture, including gemstones. On p 98 is given the history of gemstones and precious metals in antiquity, followed by sections on the diamond (very large), diamond cutting, famous diamonds, other gemstones and materials also used in jewelry including organics and pearls, and with considerable information on physical and optical properties of gemstones, synthetic stones, and lapidary work, with this portion of text ending on p 284. The paper is of poor quality, browned and perishing.

1170. -----1971, 5th edit

J. Casebó | Manual | del | Joyero I... [11 lines] ... | 5º Edicion | [star] | Editorial [logo] Albatros | Lavalle 3975 [logo] T.E. 86-1215 | Buenos Aires [1971]

8°: 428, [1 blank], [1], [2 blank]p (first 4 p also blank); 59 fig. Blue & white wrap, cover title with panel of cut gems; black spine title. 21.9 x 15 cm(8 5/8 x 5 7/8 in). Cut, JSL.

Cont: 4 blank p; tp; publ data; prefs; text; tab cont; blank p; print data; 2 blank p.

Little change over the 3rd edition but omitting color plate; 4th edition not seen.

1171. CASANOVA, R Le diamant. *Abidjan U Dept Geol Ser Doc* no 1, 78 p.; not seen.

CASANOWICZ, IMMANUEL MOSES (1853-1927)

B Vilna, Lithuania; student & tchr Switz ca 1875; to USA ca 1882; PhD Johns Hopkins U 1892, thence to US Nat Mus, Wash DC; asst curator in oriental studies 1906; specialty hist of religion, semitic languages; authority on Bible. DAB 3, p 555-6.

1172. -----1926 The collection of ancient oriental seals in the United States National Museum, *Proc US Nat Mus*, 69, art 4, 1926, p 1-23, Pls 1-20. Also reprint, in printed wrap, own tp, etc., Publ No 2630, edgestapled, 23, [1 blank]p, 20 photo pls on 10 glossy f. 24.5 x 15.7 cm(9 5/8 x 6 1/4 in). Uncut. JSL.

Brief remarks on the history and uses of seals, some made from gemstones, followed by descriptions. "The collection... consists of about 90 originals with the flat plaster casts made from them, with upwards of 200 casts of seals which were lent."

1173. CASPARI, GEORGES

Djéva | Industrie De Pierres Scientifiques | 1914-1954 | Hrand Djévahirdjian S.A. | Monthey (Suisse) [1954]

4°: 45, [3]p, first & last f blank; 19 photos (5 are cut-outs, mounted), 4 col pls, text fig, Ch orn. The tip-in pls are counted in pag. White wrap, inward-fold flaps, ornate lett cover, with transparent paper outer wrap 29.5 x 21 cm(11 5/8 x 8 1/4 in). Cut. JSL.

Cont: blank f; tp; photos of founders on mounts; tab cont; cut gem; text; publ data; blank f.

The company making Verneuil synthetic corundums in Switzerland issued this handsome brochure upon the occasion of their fortieth anniversary: history and details of the process, the company role in further development and commercialization, and with historically important photographs of Verneuil and some of his early boules as well as the factory and equipment.

1174. -----1959, 2nd edition

Jubilee | Djeva | 1914-1954 | Hrand Djevahirdjian Ltd. | Monthey (Switzerland) [1959]

Nearly identical; ruby col pl now framed in black instead of gray; photo cut-out of Prof Denivelle in place of a portr photo(p [14]); col pl on p [22-3] now on dk maroon ground instead of pale gray, ditto for col pl on p [41]. Text paper white instead of cream. JSL.

CASPARY, JOHANN XAVER ROBERT(1818-1887) & KLEBS, RICHARD(1850-1911)

Caspary Ger botanist; orig studied theology but changed to natural sciences in Bonn & Berlin; prof botany Königsberg U; dir Königsberg Botanical Gardens; advanced use of microscope for study of fine structures. NDB 3, 165.

1175. -----1907

Robert Caspary: | Die Flora | des Bernsteins und anderer fossiler Harze | des ostpreussischen Tertiärs. | Nach dem Nachlasse des Verstorbenen | bearbeitet von | Richard Klebs | in Königsberg. | [rule] | Band I. | I. Thallophyta. | II. Bryophyta. | III. Pteridophyta. | IV. Gymnospermae. | [rule] | Herausgegeben | von der | Königlich Preussischen Geologischen Landesanstalt. | [wavy rule] | Berlin. | Im Vertrieb bei der Königlichen Geologischen Landesanstalt | Berlin N.4, Invalidstr. 44. | 1907.

Abhandl K Preuss Geol Landesanstalt, NF, H 4.

8°: [4], 181, [l]p. Pale brown wrap, title on cover. 26 x 18 cm(10 1/4 x 7 in). Uncut. Price, with atlas, 25 Mk. GS 10-214; JSL.

Atlas: [3]p, XXX Pls, the first fold; Pl XI col in part; all are photo reprod of Caspary drawings. Pale brown paper over bds, title on cover, brown cloth spine. 34 x 25.8 cm(13 1/2 x 10 1/4 in).

Cont text vol: ser tp; tp; fwd; 4 pts; index; errata.

This monumental work is the accumulation of data and drawings that Caspary brought together with "collector's zeal" after completing studies on hundreds of plant inclusions in amber since 1870. Before Caspary could publish his results, death overtook him in 1887 and the task was taken over by Richard Klebs after extensive reworking of the manuscript material to conform to newer classification schemes and to bring the information up to date. The text straightforwardly identifies plant remains, classified into the broad groups noted in the title, gives details on the remains, notes references to same in the literature, and keys the remains to the figures upon the plates. The latter are of very high quality and despite the delicate shadings in the original drawings, little if any detail is lost in the reproduction. A rare work.

1176. CASSEL, Sir ERNEST JOSEPH(1852-1921) Catalog of Sir E.Cassel. Jades, crystals, and other hard stones. 100 examples on 32 photographic plates. 15 pp descriptive text. 12 x 16 in. London, 1914. From a bookseller's catalog; not seen. Cassel was a Brit financier, philanthropist, collector and patron of the arts.

CASTELLANI, ALESSANDRO (1822-1883)

Famed Ital goldsmith, jeweler of Rome; active in politics and for this reason imprisoned 1853-57. Bulgari, *Argentieri Gemmari Orafi*, etc. Pt 1, p 260. See also Munn, G C *Castellani and Giuliano*, NY, 1984.

1177. -----1876

Italy | Catalogue No.III | By Authority Of The Italian Centennial Commission. | [rule] | Special Catalogue | Of The | Collection Of Antiquities | Exhibited By | Signor Alessandro Castellani, | Of Rome.| In Rooms U, V, W, Memorial Hall. | [rule] | Philadelphia: | Press Of Edward Stern & Company. | 1876.

Edgesewn: 8°: 128 p; text figs, symbols, 1 text wood engrav. Pale brown wrap, cover title. 20.2 x 13.9 cm(8 x 5 1/2 in). Cut. USGS Kunz Coll.

Cont: tp; Sect I tp; text; Sect II tp; text.

Sect I lists by number the exhibits brought from Italy in the following categories: marbles, bronzes, terra-cotta figures, personal ornaments, engraved gems and miscellany, to p 76. Sect II titlep bears a medallion portr wood engrav; entire section devoted to ceramics. The personal ornaments include jewelry, the engraved gems, p 42-57, include 67 objects as scarabs,seals, etc.

in addition to 136 intaglios and 78 cameos. Miscellany, p 58-76, mostly rings.

1178. -----1884 Catalogue des Objets d'Art antiques du Moyen Age et de la Renaissance... Vente a Rome, Palais Castellani. Rome, 1884, folio, ill. Auction sale of 22 days: ivories, amber, silver, jewelry, rings, engraved gems, etc. Not seen.

CASTELLANI, AUGUSTO (1829-1914)

Sr mbr of an old Ital family of jewelers; intensively studied ancient jewelry & techniques and in his shop's work, emulated styles and methods of Etruscan goldsmiths, esp granulation; his pieces received wide acclaim at the expositions of Paris 1867 and Vienna 1873. *Diz Biogr Ital*, 21, p 590 ff; Bulgari, *Argentieri Gemmari Orafi* etc, pt 1, p 261.

1179. -----1862

Dell' Oreficeria Antica | Discorso | Di | Augusto Castellani | [rule] | Firenze, | Coi Tipi Di Felice Le Monnier. | [rule] | 1862.

8°: 66, [1],[1 blank]p. Orig in blue printed wrap(?). 20.8 x 14 cm (8 1/8 x 5 1/2 in). Cropped. JSL. Cont: tp; dedic; text; index.

Jewelry work of ancient Mediterranean civilizations; remarks on specific classes of work; discusses gemstones used in antiquity, engraved gems, cameos, scarabs.

1180. -----1870 Delle gemme. Firenze, 1870. Not seen.

1181. -----1871 Engl transl

Gems | [rule] | Notes And Extracts | By | Augusto Castellani. | Translated From The Italian | By | Mrs. John Brogden. | The Profits From The Sale Of This Translation Will Be Given To The | Goldsmiths' Benevolent Institution. | London: | Bell & Daldy, York Street, Covent Garden. 1871.

8°: vi, 241, [1]p; red-brown cloth, gold & black frames, gold medal on cover; blind frame back cover; gold title, rules, logo on spine. Beveled bds. Greenish-black dull endp. 18.7 x 12.8 cm(7 3/8 x 5 in). Te uncut; fe untrimmed. LC 8-31059. JSL.

Cont: 1/2tp; tp; print data; tab cont; introd; text; epilog; print data.

Short essays on many gemstones and their varieties taken up in alphabetical order and prefaced by remarks on the properties of gemstones, their history and value, etc. The essays emphasize lore & legend but some technical data and locality information are provided. There is much odd information incorporated in this work which is of some value but on the whole most of the information can be found in better sources. In this connection, B W Anderson, *The Gemm*, 9, 101, 1939, p 66-7 states in his review "the translation shows every sign of being carried out with careful literal exactness... there are many passages, however, in which Mrs.Brogden seems definitely to have gone off the rails; when either her knowledge of Italian or of gemstones has not been adequate for her task, unless Castellani himself has been guilty of some very peculiar statements." Some of the latter are noted by Anderson. Scarce.

A later(?) issue of this work is identical save for binding: in ivory cloth, dull red frames both covers, dull red rules & lett spine; dull black endp.

CASTELLO, IGNAZIO VINCENZO PATERNO, see **PATERNO CASTELLO**

1182. CASTELLO, JOSE AUGUSTO VIANNA D Produção e comércio do diamante no Brasil. (Conferencia pronunciada no Salão Nobre da Associação Comercial de Minas). Belo Horizonte: Biblioteca "Lauro Jacques," Publicação no 1, 1941, 31 p. Not seen, from Iglesias e Meneghezzi, 1944, p 8.

CASTOR, C R, see **BAUER, M,** *Edelsteinkunde*, 1969

1183. CATALOGO DEL PREZIOSO Catalogo del prezioso museo di pietre intagliate e cammei appresso le signore De Medina in Livorno. Livorno, 1742, 8°, 16 p. Not seen, from a bookseller's catalog, 1970; see also Mariette, 1, 1750, p 299.

1184. CATALOGUE DES PIERRES DE DUC D'ORLÉANS

Catalogue | Des | Pierres Gravées | Du Cabinet | De Feu Son Altesse Sérénissime | Monseigneur | Le Duc D'Orléans, | Premier Prince Du Sang, | Dont la Vente sera indiquée dans les Papiers publics. | [orn] | A Paris, | Chez Barrois l'aîné, quai des Augustins, n° 19. | [double rule] | M.DCC.LXXXVI. [1786]

8°: [4], 171, [1 blank]p, pi^2, A-L^8 19.3 x 12.5 cm(7 5/8 x 4 7/8 in).

Brief descriptions of 1647 lots, apportioned among categories of mounted gems and subjects depicted; collection acquired in the following year by Catherine the Great and placed in the Hermitage, St Petersburg. See Lachau & Le Blond, 1780-84, for full descriptions of major gems.

1185. CATALOGUE D'UNE COLLECTION DE DIAMANTS

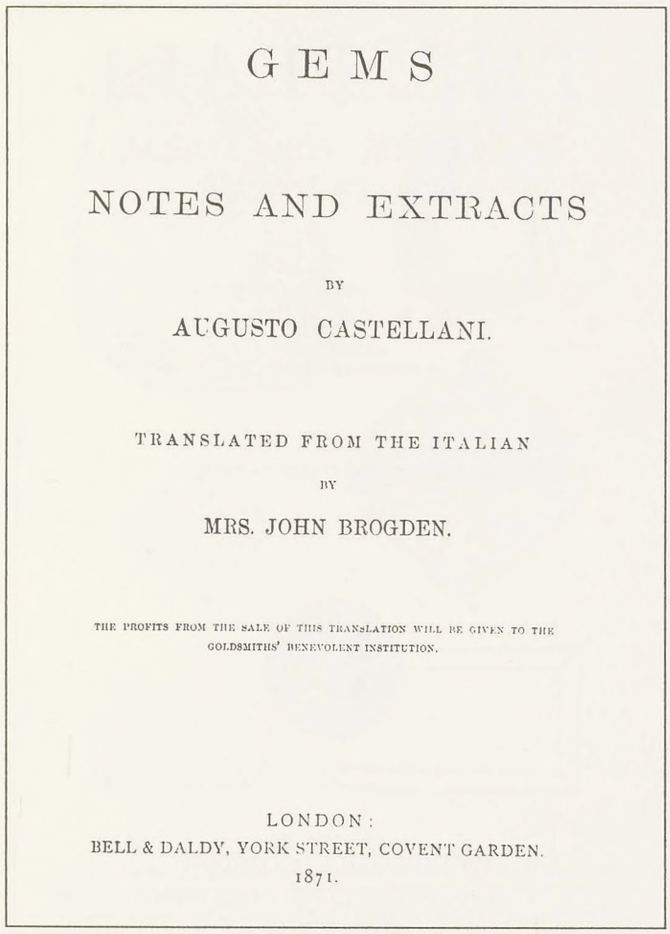
Catalogue | d'une collection de | Diamants, Perles, | Et | Pierres de Couleur | Ayant Fait Partie De La Collection | Dite | Les Joyaux de la Couronne (de France), | Dont La Vente Aura Lieu | à | Amsterdam, | le Mercredi 7 Octobre 1896, a dix heures et demie, | Du Matin | Dans La Salle De Vente | "Frascati", Nes N° 59. | Par Le Ministere | de M.M. M.I.C.G.Pollones et J.P.Smits, | Notaires, | Sous La Direction | de M.M. E.J. & I.J.Vita Israel, | Courtiers. | [orn rule] | Jours d'Exposition. | [3 lines] [title in red & black]

8°: 12 p; 9 photo pls, tissues, bound-in. Tan wrap, red & black title on cover; adverts back cover. 28.2 x 19.1 cm(11 1/8 x 7 1/2 in). Cut. Pp 3-6, 9-12 printed one side only. USGS Kunz Coll, GS 34-667.

Disposal of 20 pieces of former French crown jewels.

1186. CATALOGUE DES JOYAUX COLLIERS DE PERLES Catalogue des joyaux colliers de perles parures en perles brillants anciens... appartenu a S.A.I.Madame La Princesse Mathilde et dont vente... Galerie Georges Petit... 1904 [Paris]. 31 p, photo pls, lett tissues, print wrap. Notable for many fine pearl pieces. JSL. U S Geological Survey Library cataloged in Kunz Coll, GS 34-518, under ROUSSEL, Mme, and identifying Mathilde Bonaparte, princess, (1820-1904).

1187. CATALOGUE D'UNE IMPORTANTE COLLECTION DE PERLES FINES Catalogue d'une importante collection de perles fines dont le poids total est d'environ 7974 grains, appartenant à M.le Marquis de X^{***} et dont la vente aura lieu a Paris, Hotel Drouot... [Paris, Impr Georges Petit, 1904]. 7 p, 3 pls, 33 cm. USGS Kunz Coll, GS 34-700. Not seen.



GEMS

NOTES AND EXTRACTS

BY

AUGUSTO CASTELLANI.

TRANSLATED FROM THE ITALIAN

BY

MRS. JOHN BROGDEN.

THE PROFITS FROM THE SALE OF THIS TRANSLATION WILL BE GIVEN TO THE GOLDSMITHS' BENEVOLENT INSTITUTION.

LONDON:
BELL & DALDY, YORK STREET, COVENT GARDEN.
1871.

1181. Famous Italian goldsmith Castellani's treatise on gems as translated by Mrs John Brogden

1188. CATALOGUE DES INTAILLES

Catalogue | Des | Intailles, Camées | Marbres Et Bronzes | Provenant En Partie De L'Ancienne Collection | Du Baron Roger (1841) | Et Dont La Vente, Par Suite Du Décès | De Mme la Bonne Roger De Sivry | Aura Lieu, A Paris | Hotel Drouot, Salle N°7 | Les Lundi 18 et Mardi 19 Avril 1904 | A Deux Heures | [rule] | ... [3 lines, double column]... | [rule] | Exposition | Le Dimanche 17 Avril 1904, de 1 heure 1/2 a 5 heures 1/2

4°: 40 p; 8 photo pls, tissues. Tan wrap, dk yellow title on cover. 29.3 x 19 cm(11 1/8 x 7 1/2 in). Uncut. USGS Kunz Coll. Sale of 296 lots; excellent photo pls, all save one of engraved gems.

1189. CATALOGUE DES IMPORTANTS BIJOUX

Catalogue des importants bijoux, collier de deux rangs de perles fines, rivière en brillants, colliers de chien... appartenant à Madame X... dont la vente aux enchères publiques aura lieu à Paris. [Paris, Imp Georges Petit, 1924]. 10 p, 4 pls, 32 cm. Date of sale 20 Juin, 1924. USGS Kunz Coll, GS 34-699. Not seen.

CATLIN, GEORGE, see EWERS, J C

CATTELLE, WALLIS RICHARD(1848-1912)

B Engl where educ in common schools; to USA in 1868, entering jewelry trade in NYC but residing in NJ; proprietor of own jewelry firm but also worked in H.E.Oppenheimer & Co for 11 yrs; contrib articles to trade journals as well as writing the books noted below.

1190. -----1903

Precious Stones | [triple rule] | A Book Of Reference | For Jewellers | [triple rule] | By | W.R.Cattelle | Illustrated | [logo] | Philadelphia & London | J.B.Lippincott Company | 1993 [title in red & black, framed]

8°: 224 p; 19 pls on 10 glossy f bound-in at end of text. Full, v dk blue leather, invariably faded to brown; beveled bds; gold brilliant gem on cover; gold lett, rule on spine. Blue mbled endp. 21.5 x 14.3 cm (8 1/2 x 5 5/8 in). Teg; other edges untrimmed. Also a later printing in full leather, bds not beveled, plain white endp. LC 3-1248; JSL.

Cont: 1/2tp; tp; publ data; pref; tab cont; 37 chs; index; pls.

Based on many years practical experience, Cattelle provides a general treatise on gemstones, written in popular style, yet factual and full of interesting and authentic information. Much of the technical material is based on writings of J D Dana, G P Kunz, M Bauer, and E W Streeter but those aspects dealing with the gemstones themselves, qualities, anecdotes, etc, are from his own store of knowledge and impart a special value to the work. There are introductory chapters on gemstones in general, eg, famous gems, curious lore, quality, prices, cutting, weight system, and artificial coloration, followed by chapters devoted to the major and minor gemstones, commencing with diamond. A final group of chapters is a miscellany: nomenclature, rare gemstones, physical & optical properties, identification procedures, property vs gemstone lists, an alphabet of stones, High Priest's breastplate stones, etc. Numerous line-drawings appear on the plates and include crystal forms of diamond and some other gemstones, some realistically drawn, styles of gem cuts, and four plates of famous diamonds. Commonly the leather is decayed and covers detached but the paper remains firm. This book was given very favorable reviews and established Cattelle as an important gemological writer.

1191. -----1907

The Pearl | Its Story, Its Charm, | And Its Value | By | W.R.Cattelle | Author Of | "Precious Stones" | With Sixteen Illustrations | [logo] | Philadelphia & London | J.B.Lippincott Company | MDCCCCVII [1907; title in red & black]

8°: 376 p; front portr pl of Queen Alexandra, in pale brownish tint, 3 other similar portr pls; 12 b&w pls, all tip-ins. Pale blue cloth, 3-strand collier & lett on front cover in white frame; white lett, rules, single pearl on spine. 19.5 x 13.3 cm(7 3/4 x 5 1/4 in). Teg, others uncut. JSL; LC 7-30S08. Cover pearls pinkish but this color wears off.

Cont: 1/2tp; tp; publ data; note; tab cont; ill list; text tp; 17 unnumb chs; index.

A popular presentation of the pearl and the shellfish within which it grows, with chapters on legends & lore, antiquity of the pearl, fashion, varieties & characteristics of the pearl, its genesis, the habitat of the mollusks and how they are fished, and general characteristics of pearls from various shells and various fisheries. Replete with interesting and authentic information, much of it not found in other works on the subject. Copies commonly



H. M. QUEEN ALEXANDRA AND HER PEARLS

THE PEARL

ITS STORY, ITS CHARM, AND ITS VALUE

BY

W. R. CATTELLE

AUTHOR OF

"PRECIOUS STONES"

WITH SIXTEEN ILLUSTRATIONS

PHILADELPHIA & LONDON

J. B. LIPPINCOTT COMPANY

MDCCCCVII

1191. American jeweler Cattelle's excellent treatise on pearl; titlepage with facing tinted photograph of H M Queen Alexandra

well-preserved but considerably scarcer than his first work.

1192. -----1911

The Diamond | By | W.R.Cattelle | Author Of "Precious Stones," "The Pearl," Etc. | New York | John Lane Company | MCMXI [1911]

8°: [2 blank], [1], [1 blank]p + 433 p + [1 blank], [8], [2 blank]p; glossy photo front pl tip-in + 15 other tip-ins; 8 line cuts(many figs on each) printed in last section and labeled Pls I-VIII. Purplish-blue ribbed cloth, blind frame on cover enclosing title & cut diamond in gold; gold title & rules on spine. 20.9 x 14.1 cm(8 1/4 x 5 1/2 in). Te cut, others untrimmed. $2.00. LC 11-10089. JSL.

Cont: blank f; 12/tp; pl; tp; publ data; pref; tab cont; ill list; 18 chs; tab diamond imports; "digest"; gloss; index; pls; blank f.

Excellent survey of the principal facts about the diamond and written in Cattelle's readily understandable style but again with careful attention to accuracy. Topics include nature of diamond, mining, trade, properties of diamond, famous diamonds, industrials, and there is, quite remarkably, a chapter devoted to diamond in literature. There are also six important chapters on diamond-producing regions of the world with amplifying remarks on methods of mining, recovery, production, value, sizes of stones, and other data. The plates depict several famous persons wearing diamond jewelry, famous diamonds, cut & rough, mining scenes and mines, with the "plates" at the end of the book showing a wide variety of cutting styles as well as outline drawings of several famous stones. Despite its date, this book retains a great deal of reference value and is still recommended for inclusion in any gemological library.

1193. -----1911, London edit

The Diamond |... | John Lane, The Bodley Head | London, MCMXI | John Lane Company, New York [1911]

Same text but adds 20 p of advert; same ill but all glossy pls now bound-in. Pale grayish-blue cloth, blind frame on cover enclosing gold title with elaborate Art Nouveau floral orn; similar spine. 20.8 x 14.2 cm(8 1/4 x 5 5/8 in). Teg; others untrimmed. JSL.

CAUSEO DE LA CHAUSSE, MICHAEL ANGELUS or MICHEL-ANGE(ca 1660-1724)

B Paris(?); early in life settled in Rome; developed expertise in Roman antiquities & enjoyed friendship of eminent antiquaries and important persons, esp

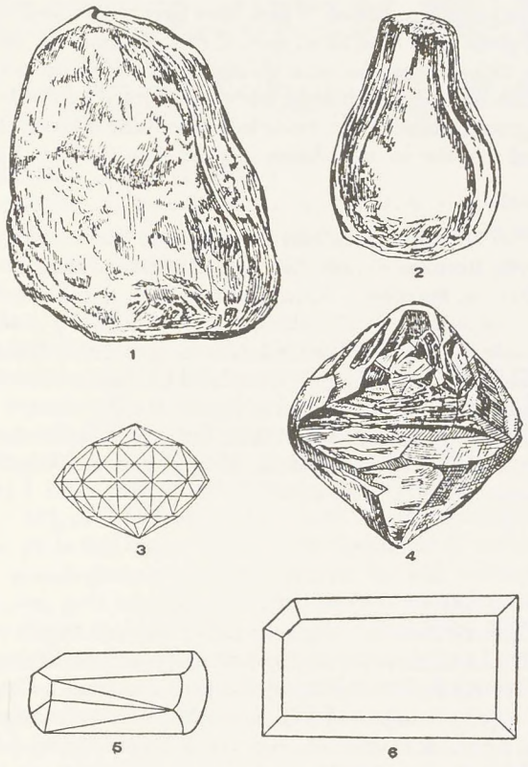


PLATE II

1, the Jagersfontein Excelsior (rough), 971 3/4 carats; 2, the Mattam, 367 carats; 3, Florentine, 133 1/8 carats (Florentine weight, 139 1/2 carats); 4, Victoria (rough), 457 1/2 carats; 5, the Shah, 86 carats; 6, Great Diamond Table of Tavernier, 242 3/16 carats.

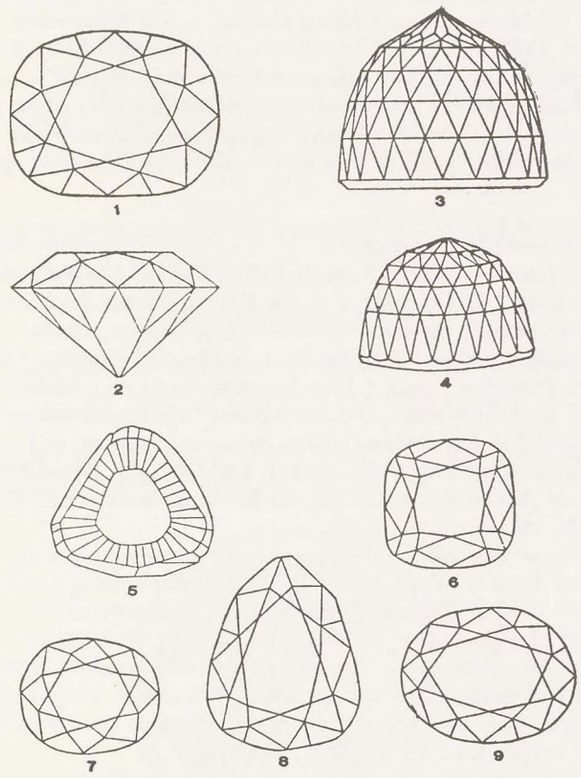


PLATE III

1, 2, the Imperial or Victoria, rough 457 1/2 carats, cut 180 carats; 3, the Great Mogul, 188 carats (variously estimated, size and weight uncertain); 4, the Orloff, 194 3/4 carats; 5, the Nassac, 89 1/2 carats; 6, the Polar Star, 40 carats; 7, the Eugénie, 51 carats; 8, Dresden Brilliant, 76 1/2 carats; 9, the Piggott, weight uncertain, quoted as 82 1/4 and 81 1/2, but according to Mawe 49 carats.

1192. Plates from Cattelle's "The Diamond"

Cardinal Cesar D'Estrees(1628-1714); his high character caused him to be apptd Fr Consul in Rome; d 1724 in Rome accord to Mariette, 1, p 280, but others give post 1738.

1194. -----1690

Romanum | Museum | Sive | Thesaurus | Eruditae Antiquitatis: | In Quo | Gemmae, Idola, Insignia Sacerdotalia, Instrumenta sacrificijs | inservientia, Lucernae, Vasa, Bullae, Armillae, Fibulae, Claves, | Annuli, Tesserae, Styli, Strigiles, Gutti, Phialae | lacrymatoriae, Vota, Signa Militaria, &c. | Centum & septuaginta Tabulis | aeneis incisa referentur, ac dilucidantur: | Curâ, studio, & sumptibus | Michaelis Angeli Causei De La Chausse | Parisiensis. | [engrav coat of arms] | Romae, | Ex Typographia Joannis Jacobi Komarek Boëmi. An. Sal. MDCXC. | Superiorum Permissu. [1690; title in red & black]

Engrav 1/2tp supplied: Minerva holding oval portr, above an angel, with trumpet banner showing same coat-of-arms as on title, and another trumpet banner reading "Romanum Museum... M.A.Causeus;" pl signed Ludovicus Gimignanus... N.Billy sculps.

2°: [1]f + [16], 127, [1 blank], [15], [1 blank]p; a-b^4, A-R^4; 160 engrav pls on as many bound-in f; 9 engrav head- & tailpcs; 6 engrav inits; 2 engrav text figs; 1 woodcut text fig. 31.7 x 21.3 cm(12 1/2 x 8 3/8 in). Cut. Two correct slips are pasted over a title on p 119. JSL.

Cont: engrav tp; tp; dedic; pref; author name list; index of museums & collections; approbation & imprimaturs; text & pls inserted; index; addenda & emendanda; blankp.

A sumptuous work describing and depicting upon the excellent engraved plates a large variety of ancient Roman objects, among them engraved gems, of which no less than 55 plates are used to depict them, and including two which show vases of agate descorated with cameo cutting; with text between p 1-32. There are also plates depicting statues, insignia, various instruments, lamps, etc. Some include phallic motifs and for this reason came to the attention of Goodland, *Biblio Sex Rites*, p 349. Further regarding the plates, Furtwängler, *Die antiken Gemmen*, 3, p 407-8, calls for 60 plates of engraved gems but according to the margin numbers in the text the correct number is 54, with the 55th plate described on p 119. The gems are shown much enlarged and were designed/engraved mostly by Bartoli. Owners are given as well as material but no sizes. In addition to the cameo-cut vases mentioned above, there is a large agate cameo plaque then in the Barbarini collection.

An extended review of the author's life and accomplishments is in P J Mariette, *Traité Pierres Gravées*, 1, p 279-84, while Vinet, 1448, calls for 170 plates but actually only 160 were issued, and remarks "on a suspecté l'authenticité des objets répresentés dans ce recueil, néanmoins Graevius a fait entrer une grande partie de ce travail dans son Thesaurus." Furtwängler calls the work "splendid." See also Zazoff, *Gemmensammler*, p 40-2.

1195. -----1706, Fr transl

Le Grand | Cabinet Romain | Ou | Recueil | D'Antiquitez Romaines, | Qui consistent en Bas Reliefs, Statues des Dieux & des Hommes, | Instruments Sacerdotaux, Lampes, Urnes, Seaux, Brasselets, | Clefs, Anneaux, & Phioles lacrimales, | Que L'On Trouve A Rome. | Avec Les explications de | Michel Ange De La Chausse. | [engrav vignette: Minerva sketching on a tablet] | A Amsterdam, | Chez François L'Honoré, & | Zacharie Chastelain le Fils. | [rule] | M.DCCVI. | Avec Privilege de Nos Seigneurs les Etats de Hollande & de Westfrise. [1706; title in red & black]

Engrav title supplied, conjugate with preceding blank f: Father Time & other figures, base of pedestal bearing words "Le Grand Cabinet Romain..." and signed "C.Luÿkenin: et f."

2°: [2 f, one blank] + [14], 126, [2]p. $*^6$ $**^1$ A-Q^4 43 bound-in engrav pls bearing 162 ill, generally 4 per pl, of which 52 are of gems, and 3 of vases and a large cameo. Large engrav headpc, many woodcut inits, head- & tailpcs, ch orns. 38.8 x 25.3 cm(15 1/4 x 10 in). Cut. JSL.

Cont: engrav tp; tp; dedic; pref; text & pls; ill list.

Preface lauds scholarship of the author and the quality of the present work and indicates that a certain "M.D.L.F.D.S." was translator. Text in same order but more illustrations per plate and engraved en bloc. This edition only mentioned by Mariette, 1, p 280-81, and not at all by Goodland despite retention of phallic object illustrations.

1196. -----1707, 2nd Latin edit

Michaelis Angeli Causei | De La Chausse Parisini | Romanum | Museum | Sive | Thesaurus | Eruditae Antiquitatis: | In Quo | Gemmae, Idola, Insignia Sacerdotalia, Instrumenta sacrificijs | inservienta, Lucernae, Vasa, Bullae, Armillae, Fibulae, | Claves, Annulli, Tesserae, Styli, Strigiles, Gutti, | Phialae lacrymatoriae, Vota, Signa Militaria, | Marmora &c. | Adiectis in hac secunda editione plurimis annotationibus, & figuris | proponuntur, ac dilucidantur. | [engrav vignette: Minerva seated; with caption: "Ex antiqua pictura Barberina"] | Romae MDCCVII. | Typis Jo. Francisci Chracas, prodè S.Marcum In via Cursus. | Superiorum Permissu. [1707; title in red & black]

Same engrav title as before but with new leaf bearing engrav portr of author: "EQ. Michael Angelus Cavsevs | De La Chavsse Parisinvs"; both f bound-in ahead of lett tp.

2°: [2]f + [16], 136, [15, [1 blank], [1], [1 blank]p; a-b^4, A-S^4, lambda^i [R_1] missigned Q; 189 engrav pls; 5 engrav headpcs; 6 engrav inits; 4 text engrv; 1 text woodcut. 32.3 x 22 cm(12 3/4 x 8 5/8 in). Cut. JSL.

Cont: engrav 1/2tp; engrav portr; tp; dedic; pref; list of authors; index of mus & collections; approb & imprim; text with pls; index; omissa; blank p; emendanda; blank p.

Essentially the same but augmented by a "Corollarium" or a miscellany of objects described on p 129-36, and with 2 new pls and 2 text engrav; the plates are of bronze vases. The "Omissa" not only accounts for certain omissions in the index(which is merely reprinted) but also now includes the new text. In addition to the plates mentioned, 6 new ones have been added to the engraved gems for a total of 61 instead of the former 55. Mariette, 1, p 283-4, noted the poor quality of certain plates in the first edition and the fact that the author attempted to rectify this by re-engraving some of the worst but with "little success;" he also stated that the second edition is better than the first. Vinet, 1448.

1197. -----1746, 3rd Latin edit Romanum museum... Adjectis in hac tertia Romana editione plurimus annotationibus, & figuris. Romae. Sumptibus Fausti Amidei. 1746. 2 vol. Plates; frontisp. Not seen: from Goodland, p 340. Among my notes I find the following from a bookseller's catalog of 1972: "Romanum Museum... 2 vols. Romae, Bernabo e Lazzarini, 1746. Title in red and black, portrait, vignettes, figures and 218 finely engraved plates by Bartoli, Gir.Frezza, Arn. van Westerhout, C Bloemart, etc. XII, 109 pp. and XI, 138 pp. Folio... Cicognara 2804. Brunet I, 1692." Not seen.

1198. -----1700

Le | Gemme Antiche | Figurate | Di | Michel Angelo Causeo De La Chausse | Parigino | Consagrate | All'Eminentissimo E Reverendissimo Principe | Il Signor Cardinale | Cesare Destrees | [engrav vignette] | In Roma M DCC. | Per Gio: Giacomo Komarek Boemo alla Fontana di Trevi. | [rule] | Con Licenzade' Superiori. [1700]

4°: [4], [16], 82, [2]p; pi^2, A^4 §§^{4}, A-K^4, lambda^2; 200 engrav pls on 200 f, printed recto; engrav tp on a monument against a background of Roman ruins; 2 engrav headpcs; 3 engrav tailpcs; 2 engrav inits. 25.4 x 18.9 cm(10 x 7 1/2 in). Cut. JSL.

Cont: blank f conjugate with engrav title; tp; dedic; tab cont; pref; imprimaturs; text; index of authors; pls.

King, *Antique Gems and Rings*, 1, p 463, states that the gems shown herein were in the collection of the author. Mariette, *Traité Pierres Gravées*, 1, p 284, notes that the author "continues to furnish proofs of the excellence of his taste and the extent of his knowledge. The choice of gems is done with discernment, the descriptions... judicious and erudite." However, Mariette also remarks disparagingly about the plates, noting that Bartoli, the engraver, was in "decline." Similar comments in Furtwängler, *Die antiken Gemmen*, 3, 408, who notes that the style of Bartoli's engraving is sketchy and results mediocre, with the material of each gem given on each plate but without owner or size, with all gems drawn to about the same dimensions, in the same space, and in the same style, but, he further states, "the comments are short and factual and strive to declare the representations as significant amulets."

1199. -----1700, reprinted. Without tailpc at end of pref & end of text(p 82); different headpc on dedic p and also different tailpc at end of pls index; paper thicker, of poorer quality, less white. Otherwise same.

1200. -----1805, 2nd edit

Raccolta | Di | Gemme Antiche | Figurate | Incise Da Pietro Santi Bartoli | Ed Illustrate Da | Michelangelo Causeo

De La Chausse | Edizione Seconda | Tomo I[-II] | [engrav vignette: seated Minerva, with helmet, shield, spear] | In Roma MDCCCV. | Presso Pietro Paolo Montagni-Mirabili | [rule] | Con Licenza [fully engrav titles]

8°: 2 vol, each with 100 engrav pls. LC 12-11889 enters this under BARTOLI, PIETRO SANTI(1635-1700).

CAUSTIER, EUGENE(1864-)

Stud at École des Arts et Métiers(Chalôns) and in Paris then to Clermont-Ferrand; prof nat sci in several lyceums; publ several large, well-illustrated works popularizing science and its practical applications.

1201. -----1902

E.Caustier | [underline] | Les Entrailles | de la Terre | [in center a photo] | [to left, in column:] Le Globe Terrestre. Les Eux Sou- [etc, for 9 more lines] | [to right, in column:] Le Diamant Et Les Pierres Précieuses. [etc, for 9 more lines] | Paris | Librairie Nony & Cie | 63, Boulevard Saint-Germain, 63 | [rule] | 1902. [title in red & black]

8°: [4], 491, [1 blank], [4]p; front col pl, tissue, tip-in; 3 other pls in col, tissues, tip-ins; 409 fig(photos & wood engrav). Pale grayish-green cloth, very elaborate dec with mining scenes on cover, gold lett, frame etc., similar back cover & spine, the latter with a derrick rig. pale gray-blue floral endp. 29.9 x 20.4 cm(11 3/4 x 8 in). Aeg. Semi-glossy paper. Also in pale tan wrap, red & black title on cover with central photo; black & red lett spine, orns. 31.2 x 21.2 cm(12 1/4 x 8 3/8 in). Uncut. Also in red morocco. JSL.

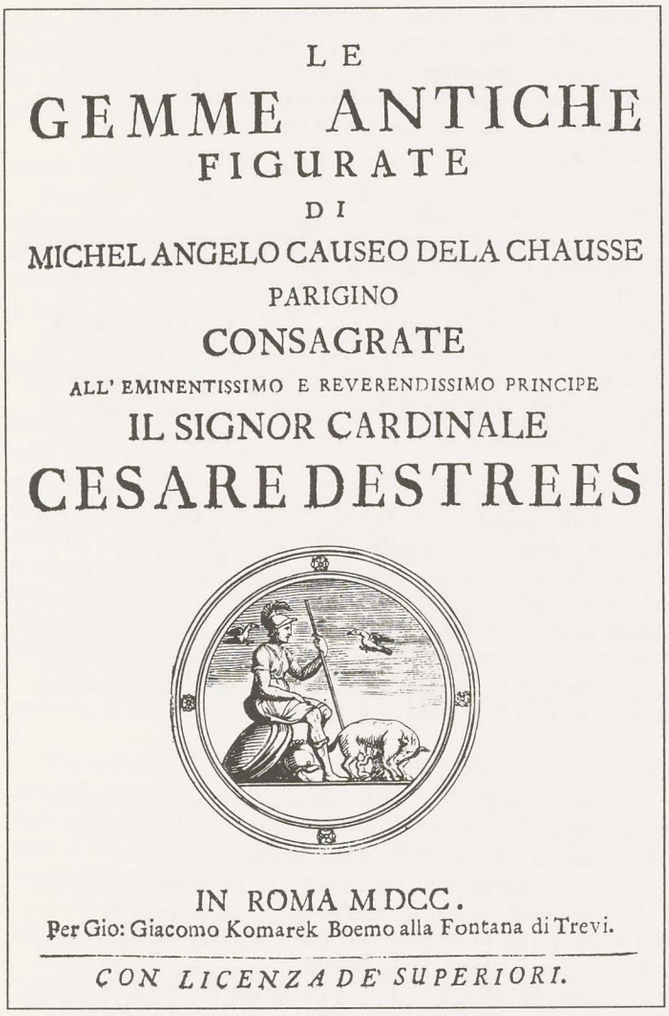
Cont: 1/2tp; other publ bks & publ data; front pl; tp; pls list; introd; text in 3 pts; tab cont; blank p; publ advert.

A beautiful, lavishly illustrated work on the underground world in general but actually placing most emphasis on mineral resources and their recovery. First part: origin, general features of earth, underground waters, underground fires & volcanic activity, geysers, hot springs, and earthquakes. Part two: mines & quarries, each described under chapters on coal, oil, petroleum, metals, non-metals, etc, with diamond and precious stones comprising Ch 7, p 384-410, and with additional material on stones, salt, mining in ancient times, etc. The precious stones chapters contains fine photos & wood engravings, also a color plate of cut & rough gemstones. On the whole it is a fair summary of the major facts, especially on the diamond. The third part of the book is devoted to caverns, tunnels, and excavations underground. A strong feature of the entire work is the variety of illustrations, the care taken in their reproduction, and the fact that they incorporate many very early depictions of mines, quarries, workers, machinery, and even illustrations taken from antique mining and assaying books.

1202. CAVELIER DE CUVERVILLE La pêche du corail sur les côtes de l'Algérie. *Revue Maritime et Coloniale*, Paris, 45, 1875, p 404-43, 657-87. Not seen.

1203. CAVENAGO-BIGNAMI MONETA, SPERANZA

Speranza Cavenago-Bignami Moneta | Direttore del Laboratorio di Stato per le analisi gemologiche | Membro Ordinario della Gemmological Association of Great Britain | di Londra | Gemmologia |... [11 lines] ... | [logo] | Editore Ulrico Hoepli Milano | 1959 [title in black & red]


LE
GEMME ANTICHE
FIGURATE
DI
MICHEL ANGELO CAUSEO DELA CHAUSSE
PARIGINO
CONSAGRATE
ALL' EMINENTISSIMO E REVERENDISSIMO PRINCIPE
IL SIGNOR CARDINALE
CESARE DESTREES

IN ROMA M DCC.
Per Gio: Giacomo Komarek Boemo alla Fontana di Trevi.

CON LICENZA DE' SUPERIORI.

1198. Titlepage to Causeo De La Chausse's treatise on engraved gems, 1700

8°: XXXVI, 1110, [1], [1 blank]p; 32 tip-in col pls; 702 figs; 67 tabs & many text tabs; map. Dk blue cloth, gold diamond on cover, blind logo back cover, gold lett & diamond spine. Black & col dj. 23.9 x 17 cm(9 3/8 x 6 5/8 in). Cut. In plain cardbd slipcase. L 15,000. JSL.

Cont: 1/2tp; tp; publ data; pref; tab cont; col pl index; part tp; 4 pts text; biblio(p 1079-80, 79 entries); Latin name index; Greek names index; index; press note; blank p.

Very comprehensive and very large compilation of facts & figures on all aspects of gemology and the largest such work to yet appear in any language. Part first is, in effect, a short textbook of mineralogy with coverage of topics as uses of gem minerals, lapidary work, artificial coloration, trade, synthesis, nomenclature, and others. The second part describes the gems and provides a great deal of ancillary information both scientific and cultural. The third part discusses identification while the last part consists of numerous tables. The bibliography is far too short for a work of such monumental size and it is neither free of errors nor does it include all modern works of major

importance. The color plates are good on the whole but of uneven quality. While it contains practically all that is worth knowing about gemstones, it suffers from uncritical choice of material, contains substantial repetition, and relies too much on outdated works. Rev *The Gemm*, 29, 349, 1960, p 153-4; *J Gemm* 7, 2, 1959, p 72-3.

1204. -----1965, 2nd edit

... | Gemmologia | ...Seconda edizione reveduta, aggiornata ed aumentata | [logo] | Editore Ulrico Hoepli Milano [1965; tp red & black]

8°: XLVII (first 2 p blank), [1], 1390, [1], [1 blank]p; 72 tip-in col pls; 2 bound-in col pls of absorption spectra; 983 fig; 72 tabs; many text tabs; map. Green buckram, similar cover dec, lett. Spine now plain but with gold title & sec edit. Similar col dj. 23.8 x 17.1 cm(9 3/8 x 6 3/4 in), Cut. Slipcase. L 30,000. JSL.

Cont: blank f; 1/2tp; tp; publ data; prefaces; tab cont; col pl index; errata; part tp; text; biblio(p 1333-35, 140 entries); Lat & Greek indexes; subject index; print note; blank p.

Entirely revised, reset, with numerous major & minor revisions and additions to text & illustrations. Major additions include ivory, with fine illustrations, and new material on shells, pearl, and coral, synthetic gemstones, new and rare gemstones. Rev *J Gemm*, 9, 9, 1965, p 302; *Austral Gemm*, 10, 8, 1969, p 25-6; *G & G*, 11, 8, 1964-5, p 254-5.

1205. -----1972, 3rd edit

... | Gemmologia |... | Terza edizione riveduta, aggiornata ed aumentata | Tomo Primo [-Secondo] | [logo] | Editore Ulrico Hoepli Milano [1972; black & red title]

16°: vol 1: LVII (first 2 p blank), [2], [1 blank], 752 p; Pls I- LX, fig 1-667. Vol 2: [2 blank], [5], [1 blank]p + p 753-1526 + [1], [1 blank]p; Pls LXI-CXXVIII, fig 668-1081; map. Maroon buckram, gold diamond on covers; blind logo back covers; gold lett & vol num on spines. Colorless plastic dj. 23.9 x 17 cm(9 3/8 x 6 3/4 in). Cut. L 40,000. In stout cardbd slipcase, dj overlay, buckram top & bottom. JSL.

Cont: vol 1: blank f; 1/2tp; tp; publ data; prefaces; tab cont; col pl index; errata; vol tp; blank p; part tp; text. Vol 2: blank f; 1/2tp; tp; publ data; vol tp; text; biblio(p 1465-8, 158 entries); Latin & Greek indexes; subj index; print note; blank p.

Again entirely revised, reset, much additional material added and also illustrations; new species of gemstones also incorporated although a number are so trivial that they can scarcely be classed as seriously deserving the title. Bibliographical errors remain, major works of importance still omitted, locality information errors remain for the North American continent. Rev *Austral Gemm*, 11, 9, 1973, p 18-20; *J Gemm*, 13, 3, 1972, p 112-3.

1206. -----1980, 4th edit

... | Gemmologia |... Quarta edizione riveduta, aggiornata ed aumentata| Tomo Primo[-Terzo] | Logo | Editore Ulrico Hoepli Milano [1980; red & black title]

8°: vol 1: LXXXIV, (first 2 p blank), [1], [1 blank], 770, [2 blank p]. Vol 2: [2 blank], [5], [1 blank]p + p 771-1408 + [1], [1 blank]p. Vol 3: [2 blank], [7], [1 blank]p + p 1411-1734 + [1], [1 blank]p; 476 figs in col on 208 pls, 1326 text fig, 7 + 94 tabs. Pale blue unfin cloth, gilt spine titles, cut diamond on covers. Colorless plastic djs. Slipcase, matching blue cloth top and bottom, glossy black wrap around. 23.7 x 17.1 cm(9 3/8 x 6 3/4 in). Cut. L 150,000. ISBN 88-203-1145-3. JSL.

Cont: vol 1: blank f; 1/2tp; tp; publ data; summary of vol contents; prefaces; tabs of conts; col pls list; text tp; part tp; text; col pl LXXIX; blank f. Vol 2: blank f; 1/2tp; tp; publ data; vol tp; text; print data; blank p. Vol 3: blank f; 1/2tp; tp; publ data; vol tp; part tp; text(to p 1512); part tp(tables); biblio tp; biblio(p 1651-5, 180 bks, 15 journals, 18 others); Latin & Greek indexes; personal name index; organization index(schools, museums, etc); main. index; print data; blank p.

Due to further increased size, in three matching volumes; as before, revisions, etc, throughout; substantial new material on synthetics and new gemstones, mostly collector's curiosities. Tables and bibliography enlarged. Rev *J Gemm*, 17, 3, 1980, p 196-7.

END OF GEMMOLOGIA

1207. -----1973 Manuale di gemmologia. Milano: Ulrico Hoepli, 1973, XIX, 193 p, col ills. L 4,900. Not seen: rev *J Gemm*, 15, 5, 1977, p 266.

CAVEROI, see TRAITÉ ABRÉGÉ DES PIERRES FINES

1208. CAYCE, EDGAR

Scientific Properties and Occult Aspects of | Twenty-Two | Gems, Stones, and Metals | A Comparative Study Based Upon | The Edgar Cayce Psychic Readings | Published by | The Edgar Cayce Publishing Company | Virgina Beach, Virginia [First edit, 1960; no author given]

Centerstapled: [4], v, 50 p; pale gray wrap, cover title; 22.8 x 15.2 cm(9 x 6 in). Cut. JSL.

Cont: publ data inside front cover; tp; tab cont; two statements; pref; text in 3 parts; biblio(p 50, 18 entries).

Part one: occult properties in general, speculations on sources of powers attributed to gems, stones, and metals. Part two: Cayce's statements about each substance while in a self-induced trance; there are 22 altogether, mostly gemstones. Part three: uses of the materials, list of supplying dealers, periodicals and books, calendar of birthstones. A very popular publication. A 4th printing was issued in 1964, with some changes to wrap and changes in dealer list.

1209. -----1979, revised edit

Scientific Properties and | Occult Aspects of | Twenty-Two | Gems, Stones, | and Metals | A Comparative Study Based on | the Edgar Cayce Readings | Revised Edition [foregoing in frame; below:] | A.R.E Press. Virginia Beach. Virginia [1979]

Cementb: vi, 73, [1]p; white wrap, blue lett & col photo on cover; blue spine title; blue with white lett back cover. 21.5 x 13.2 cm(8 1/2 x 5 1/4 in). Cut. $2.95. ISBN 87604-110-1. JSL.

Cont: tp; publ data & ackn; tab cont; statement; text in 3 parts; append in 3 parts; statement.

Considerably revised & enlarged; preface, dealer, bk lists, biblio deleted; new appendix contains three articles by Ken Carley, a gem & mineral dealer / lapidary who wrote "Reflections of a Rockhound," "The Stones of Egypt," and "Lapis Lazuli," p 47-73.

CAYLUS, ANNE-CLAUDE-PHILIPPE DE TUBIERES, DE GRIMOARD DE PESTELS DE LEVI, *Comte de*(1792-1765)

B Paris; titles also include Marquis d'Esternay, Baron de Bransac; priv educ; officer King's Army with distinguished services in European campaigns; resigned comm 1715, devoting remainder of life to travel, esp Near East and Mediterranean, the study & enjoyment of science, art, and letters; became erudite, extremely prolific author & celebrated antiquary; his 7 volumes treatise *Recueil d'antiquités Égyptiennes*, etc, Paris, 1752- 67, is particularly well-known and contains a detailed description of the Mensa Isiaca tablet from Egypt. *Biogr Univ*, 7, p 468-72, portr; Goodland p ll5; Zazoff, *Gemmensammler*, p 130-1.

1210. -----17--? Examen d'un passage de Pline dans lequel il est question de la pierre obsidienne. *Memoires de Littérature*, Paris, 30, 17--. p 457- 502, engrav pl facing p 457, depicts objects made from obsidian.Not seen.

1211. -----1752-1767 Recueil d'antiquités égyptiennes, étrusques, grecques et romaines. Paris, 1752-67, 7 vols in 4°. Plates per volume: 107, 126, 121, 125, 120, 130, 97, engrav. Not seen, from Vinet 1451 who notes that the first volume was reprinted in 1761, and a German translation by G W Panzer appeared in Nürnberg, 1766, but only the first volume, 4°, was issued. Neither Vinet nor Furtwängler, *Die antiken Gemmen*, 3, p 413-4, express much admiration for this work, deeming it lacking in taste and displaying more zeal than talent; conversely, King, *Antique Gems & Rings*, 1872, p 463, notes a large number of engraved plates of gems, "done on a large scale and in a somewhat sketchy manner, but still with great expressiveness, displaying the hand of one who thoroughly understood what he was copying." H H Von Der Osten, *Altorientalische Siegelsteine*, etc, 1957, p 215, indicates which volumes contain engraved gems.

1212. ----17--? Recueil des pierres gravées du cabinet du Roi. No place, no date. Paris, 17--?. Small 4°; 306 plates; a new edition publ by Pierre-François Basan(1723-1797) as "Recueil de trois cents têtes... etc. (see below) ." Not seen, from Vinet 1624 who adds: "the first edition has no title, no text, no numbering of plates, and was published in only a few copies. Basan, the owner of all the plates, added numbers and captions, and replaced by other plates those missing from the first edition." Further comments on this work in S Reinach, *Pierres Gravées*, 1895, p 88-89; Mariette, *Traité pierres gravées*, p 447-8; Brunet 1, p 1706.

1213. -----17--?

Recueil | De Trois Cent Têtes | et sujets de composition | Gravés Par M^r^. le Comte de Caÿlus | d aprés les pierres gravées antiques du | Cabinet du Roi. | Se vend a Paris chés Basan [Paris, nd, post 1750]

Entire tp engrav: title within a wreath frame at bottom; above Father Time in a struggle with Juno?

4°: [1], [1 blank], [1], [1 blank]p + [150]f each with 2 engravs. 26 x 19.5 cm(10 1/4 x 7 3/4 in). Cut. JSL.

Cont: engrav tp; unsigned pref; pls.

According to Mariette, 1, p 447-8, the plates were originally engraved by Caylus after designs of Edme Bouchardon(1698-1762) upon the urging of friends to illustrate the gems in the French Royal Cabinet. Unnoticed by King and Furtwängler; despite presence of phallic gems, also unnoticed by Goodland. S Reinach, *Pierres gravées*, p 88-9, gives the best account of this work, confirming that copies do not bear a place or date of publication; he also states it is extremely scarce, remarking that he could not obtain a copy of either the first or the second edition.

1214. CEDERSTRÖM, CARL OLOF RUDOLF(1876-)

Kungliga Liv- [royal arms] Kustkammaren | De Svenska | Riksregalierna | Och Kungliga Värdighetstecknen | Till H.K.H.Kronprinsens 60-Årsdag | Den 11 November 1942 | Med Vederbörligt Tillstånd | Utgivna Av | Rudolf Cederström | [rule] | Stockholm 1942 [title in reddish-brown & black]

Title on a thick special leaf, inserted with cloth hinge; another but uncol tp appears after the 1/2tp and is part of text proper.

8°: [2]p inserted tp + [1], [1 blank], 351, [1 blank], [1], [1 blank] p + blank f of same stock as title insert and also supplied with cloth hinge; 9 glossy tip-in col pls, all save one includ in pag; 50 text fig; 83 fullp text fig printed recto, versos blank, but includ in pag. This copy special deluxe binding, black calf, calf corners, pale yellowish-brown crown-watermark paper over bds; 5 raised bds; two red spine panels, one with author, other with title, gilt,also three crowns in three spine compartments. 31.7 x 23.1 cm(12 1/2 x 9 1/8 in). Teg. JSL. Also in pale pink-tan heavy paper print wrap.

Cont: supplied tp; 1/2tp; tp; dedic; fwd; text; refs; list of artisans; ill sources; tab cont; blank p; publ data; blank p.; suppl f.

The complete and detailed history and description of the Swedish Crown jewels/regalia, splendidly illustrated: origin & form of the coronation ceremony, chronology/history of acquisition of the pieces, descriptions. Important gemstones are incorporated in many pieces.

CELADON JADE, see GYLLENSVÄRD, BO

1215. CELLINI, BENVENUTO(1509-1571); ASHBEE, CHARLES ROBERT(1863-1942), editor

The treatises Of Benvenuto | Cellini On Goldsmithing And | Sculpture. [London: Edward Arnold, 1888]

8°: [2 blank]f sewn-in + [1 blank]f bound-in + xiv, [1], [1 blank], 164, [1], [1 blank], [2]p + [1 blank]f bound-in + [2 blank]f sewn-in. The bound-in blanks are conjugates of the pastedowns. 7 tip-in engrav pls, 3 photo pls, all with tissues; 7 fig. Dull green cloth, paper spine label with title & floral orn. 29.7 x 21.7 cm(11 5/8 x 8 1/2 in). Uncut, untrimmed. Thick, white, hand-made paper, deckle-edged. JSL.

Colophon: "Published by Edward Arnold... and of the 600 copies printed, this copy is No..... " (supplied by hand in ink).

Cont: 3 blank f; tp; orn; dedic; blank p; tab cont; ill lists; introd(Ashbee), text tp; treatises; gloss with pref note; publ data & colophon; blank p; errata; other publ of Guild of Handcraft; 3 blank f.

The major portion of this book concerns Cellini's famous treatise on the arts he employed in creating his fabulous jewels and jeweled & enameled objects of precious metal work. There are chapters on the jewelry, notes on the relative values of gems, techniques in setting gems in mountings to enhance color & brilliance, and the use of metal foil backings, and some miscellaneous remarks on gems of the time. Other translations of these treatises are described and merits compared by Ashbee. The latter was a British architect, art connoisseur and writer; he

founded and served as director of the Guild of Handcraft, Scarce.

1215A. CERFBEER DE MENDELSHEIM, A Diamants, montres et bijoux. Paris: S. des Livres Utiles, 1870. 18°: 24 p, figs. Not seen.

CERUTO, or CERUTI, BENEDICT & CHIOCCO, ANDREA(d 1624)

Not much is known of Ceruto save for a few remarks in Biogr Univ, under Calceolari; Chiocco, prof medicine in native Verona, poet & philo- sopher, student of nat hist; prolific author(ibid, 8, 403-4). Francisco Calceolaris or Calceolarius in Latin, or Calzolari, in Italian(1521-1600), famous, versatile naturalist, pharmacist in native Verona, stud variation of vegetation with increase in altitude; plant name *calceolarius*, a native of Chile, named after(*Biogr Univ*, 6, 507-8).

1216.-----1622

Mvsaevm | Franc. Calceolari | Ivn. Veronensis | A Benedicto Cervto Medico | Incaeptvm, | Et Ab Andrea Chiocco | Med. Phÿsico Excellentiss. | Collegii | Luculenter Descriptum, & Perfectum, | In quo multa ad naturalem, moralemq. Philosophia | Spectantia, non pauca ad rem Medicam | pertinentia erudité proponuntur, | & explicantur, | Non sine magna rerum exoticarum | supellectile, quae artifici plané | manu in aes incisae, studiosis | exhibentur. [full engrav tp]

Colophon, p 746: "Veronae, | Apud Angelum Tamum.c|ɔ |ɔ c xxij .|... [1622]"

2° in 4's: [1]f + title f + [23]f + 746 p; pi^2, $*^4$, pi^2, $\dagger 2^2$, $\dagger 3^4$, $a\text{-}b^4$, c^2 $A\text{-}Aaaaa^4$, $Bbbbb^6$; 43 text engrav; 3 text wood engrav; ch orns, inits. 28 x 19 cm(11 x 7 1/2 in). Agassiz II, 73; Ward & Carozzi 414. JSL.

Cont: 1/2tp; engrav tp; dedic(Prince Gonsaga); pref; epigrams & lauds; index to sections; subj index; laud of Chiocco; errata note; first sect tp; text in 6 parts; colophon last p.

Essentially the elaborate descriptive catalog of collections in Museo Calceolari, Verona, Italy. Thorndike, *History of Magic*, 8, p 4-5, notes that the museum "took its name from the past founder and present owner," and that the catalog "was begun for him by Benedictus Cerutus and completed by Andrea Chiocco in 1622." A note of Ceruti's death appears on p 328 and is followed by two pages of introduction by Chiocco, suggesting that the catalog from this point onward was written by him. Thorndike analyses the six parts of the catalog as follows, "In the first were shrubs and very large plants[sic], with some fine pictures of coral [3], particular kinds of halcyons, testaceans and crustaceans, fish and dried amphibians. To the second section belonged the various kinds of earths, ochres, rubrics, salts, alums, sulphurs and bitumens. Third were gems and other stones, including those marked by nature with figures - a long section covering pages 185 to 431 but consisting mostly of quotation from Marbod and others. Section four dealt with metals; five with plants, roots and exotic fruits, also foreign gums and fat juices; six with birds, quadrupeds, lizards, amphibian animals and miscellaneous matters. An alphabetical index followed. The text except for the second section was illustrated with pictures of the specimens and also often gave their moral significance. Such past authors as Pliny, Dioscorides and Albertus Magnus are frequently cited."

The text of the third part, on gemstones, among others, begins, with a few preliminary remarks then describes numerous gemstones such as amethyst, (graced with a fullpage engraving of an agate geode lined with amethyst crystals), diamond, opal, chalcedony onyx, emerald, malachite, beryl, another engraving, this time of an agate nodule, sapphire, ruby, sard and varieties of same, topaz, agates and jaspers, magnetite, hematite, with an excellent engraving of "kidney ore," various rocks, remarks on inscribed stones and engraved gems, with two gems depicted, then a potpourri of fossils, stones of curious shape or bearing natural figures in them,etc. The above discussion terminates on p 328, upon which appears a note of Ceruti's demise, followed by two pages in which Chiocco announces his preparation of the succeeding portions of the section. The text resumes with a description of nephrite or "nephritico isada," as spelled by Chiocco, bezoars, alectorius, the "lapide asio," Lydian stone, jet, more fossils, chrysocolla, and other stones which were obviously borrowed from Pliny and then as now rejoiced in names to which no one can find modern mineralogical equivalents. Near the end of the section are several fine engravings of fossils, including a sea-urchin, a fish, and a crab. Throughout this section may be found quotations of earlier writers alluded to by Thorndike above but more especially in the part written by Ceruti. To conclude, the fifth section, on metallic minerals, includes native golds and silvers, copper, iron, and other metal ores, but also talc, aluminous earths or salts, lapis lazuli, sandarac(!), and other obscure substances. The only engraving appears to be crystallized cassiterite.

1217. CERVANTES, ANTONIETA ... Lapidaria Olmeca. Olmec Lapidary Art. Drawings Iker Larrauri. *Coleccion Breve* 15. Museo Nacional De Antropologia [Mexico City, 1973]. 31, [1]p; 16 drawings. Wrap. 16.6 x 11.3 cm(6 1/2 x 4 1/2 in). Cut. 3,000 copies. JSL. Describes and explains Olmec figurines made from stone, principally jadeite, in the National Museum of Anthropology in Mexico City.

CESALPINO, ANDREA, or CAESALPINUS, ANDREAS (1519-1603)

B Arezzo, Ital; studied med & botany Pisa U, later taught medicine, botany & philosophy there; succeeded Aldrovandi as Director, Bologna Botanical Garden; physician to Pope Clement VIII from 1592; d Rome. DSB, Suppl, p 80-1; Pogg I, 358; Partington 2, p 88-92 & 3, p 617-8; Bolton, 349; Duveen, p 112; Ferchl, 80; Thorndike, 6, p 334-5; Leupold, 40; Hoefer, *Hist Chimie*, 2, 51-5; A.Geikie, *Founders Geol*, 53; *Biogr Univ*, 7, p 559-65.

1218. -----1596 De metallicis libri III. Romae, 1596. Dewalque 100; De Golyer Coll, U Okla. Not seen. Agassiz II, 2; Böhmer, IV, 1, 24.

1219. -----1602, 2nd edit

De Metal- | Licis Libri | Tres. | Andrea Caesal- | Pino Aretino. | Medico & Philosopho | auctore. | [woodcut publ dev: farmers at work, motto "Spes Alit Agricolas"] | Noribergae, | Recusi, curante Conrado Agricola. | [rule] | M D CII. [Nurnberg, 1602]

4°: [15], [1 blank]p + 222, [1], [1 blank]p; $a\text{-}b^4$, $A\text{-}Ee^4$; woodcut inits, headpcs, tailpc. 20.3 x 14.5 cm(8 x 5 3/4 in). Cropped. Ward & Carozzi 456; Dewalque 101; JSL; Agassiz II, 2; Böhmer IV, i, 24.

Cont: tp; ltr; index; blank p; text in 3 bks; corrigenda & colophon signed "Ex officina Kagtharinae, Viduae Alexandri Theodorici;" blank p.

The three books that comprise this treatise deal with (1) earths, salts, alums, sulfur and bitumen-like substances, and ambergris, (2) stones and gemstones, and (3) metals. As

Thorndike, *History of Magic*, 6, p 334-5, points out, the author "claimed no originality for his *De metallicis*, which he represented as a useful compendium," borrowing information from "such authors as Pliny, Dioscorides, Galen, Theophrastus, Marbod, and Albertus Magnus." Apparently the present treatise was meant to be a kind of supplement to his work *De plantis*, 1583.

In the first book, much space is given to the origin of mineral substances based on Aristotle, but as Thorndike notes, his "attempt at a generic classification is vitiated by being based upon the theory of four elements and four qualities," that is, "all subterranean minerals are a mixture of earth and water and the first genus considered is of those which are formed from a dry exhalation." Thorndike further notes that much magical lore, especially on gemstones, is included. Concerning the latter, almost all of the second book is devoted to the usual gemstones, plus many types of ornamental rocks such as marbles and porphyries, but also includes a large number of figured stones, some of which are fossils, or, in general, those substances of the mineral kingdom which do not fall logically into the class of earths in the first book, or in the metals of book three. Among the gemstones are quartzes, diamond, emerald, chrysolite, topaz, garnet, zircon, amber, lapis lazuli, etc. There is no remarkable information inasmuch as it was borrowed from the authorities mentioned above.

CESBRON, F, see BLAISE, J

CESI, BERNARD or CAESIUS, BERNARDUS(ca 1581-1630)

B Modena, Ital in a noble family; ent Jesuit Order; due to proficiency in sciences, attached to court of Francis I, House of Este, Duke of Modena and Reggio(1610-1658); d of the plague in Modena. *Biogr Univ* 7, p 584; Pogg I, 413.

1220. -----1636

Mineralogia, | Sive | Natvralis Philosophiae | Thesavri, | In Qvibvs Metallicae Concretionis | medicatorúmque fossilium miracula, terrarum pretium, colorum | & pigmentorum apparatus, concretorum succorum virtus, | lapidum atque gemmarum dignitas continentur. | Hos publici iuris fecit R.P.Bernardvs Caesivs Mutinensis, | è Societe Iesv. | Proderit Haec Pretiosa Svpellex Non | Philosophiae modò, ac Medicinae, verùm etiam sacre & humanioris | literaturae studiosis. | [rect engrav vignette] | Lvgdvni, | Sumptib Iacobi & Petri Prost | [red rule] | M.DC.XXXVI. | Cvm Privilegio Regis. [Lyon, 1636; title in red & black]

2°, in 4's & 6's: [16], 626, [69], [1 blank]p; a^4, e^4, A-Mmm^6; 32 x 22.5 cm(12 1/2 x 9 in), for what appears to be a severely cropped copy (JSL); USGS Library copy 33.7 x 22.5 cm(13 1/4 x 8 7/8 in). Woodcut ch orns, inits. Double-columned. JSL; Ward & Carozzi 457; Dewalque 102; De Golyer Coll, U Okla; USGS GS 5-515; BM(NH); Hoover Coll 214; Agassiz II, 2.

Published six years after his death by his Order in Lyon, this large compilation of mineralogical knowledge, with much on paleontological specimens as then known, and also on gemstones, contains little if any original material and is chiefly valuable for being a preservational archive (see Adams, *Birth & Development*, p 164-5). Apparently he is the first author to employ the term "mineralogy," according to Partington II, 94. Cesi's sources are incorporated in the text along with the quoted or paraphrased excerpts. The text, in five books, treats mineralogy in general, the earths, petrified juices(salts, organics), stones and gems, and metals. Of special interest to the gemologist is amber, treated extensively on p 398-412, and in view of the fact that the text is double-columned, the information is very substantial. Cesi discusses its nomenclature, the nature and sources of amber, the legendary "lyncurium," types of amber, its properties, and other matters. In a large section on glass, Cesi mentions the use of colored glass to imitate genuine gemstones, p 422. Crystals in general, mainly quartz varieties, are treated at length on p 425-36, and include, as usual, remarks on curious lore, magical properties, and curative or preventative powers. However, the major gemstone portion is in the fourth book where stones and gems are treated on p 513-608, and where one may find compiled all that Cesi could glean from the many authors he consulted. Among ornamental materials are marbles, serpentine, alabaster, porphyry, etc, also jet, followed by a host of stones mentioned by Pliny and whose identities in some instances are still not clearly established, A substantial section treats the lodestone. The second part of the book is entitled "De gemmis," p 541 ff, and begins with a discussion of gems in general, sealstones, and other stones which bear some sort of figure upon them, also a scheme of classification, the Biblical gemstones, to which much space is devoted, descriptions of gemstones, curious lore, etc. Special chapters are given to diamond, pearl, ruby, and other major gemstones. All of it is carefully indexed and supplied with marginal notes; so far as I know, Cesi's treatise has never been translated. Concerning the portion on gemstones, Thorndike, *History of Magic*, 7, p 254-7, comments rather unfavorably on the work as being an uncritical compilation without the author making any attempt to evaluate the information obtained from others.

1221. -----1636, reprinted. Dedic to Francis I now replaced by dedic to Charles de Neufville, Marquis of Villeroi(d 1642); approbations on one page rather than two; other minor differences but text unchanged. JSL.

1222. -----1637. De Golyer Coll, Univ Okla, not seen

CESNOLA, ALESSANDRO [also ALEXANDER] PALMA DI (1840-1904)

Ital army officer 1849-59; to USA where served in Union army during Civil war, earned Congress Medal Honor; naturalized 1865; consul to Cyprus 1865-76, exploring & collecting from ruins ancient cultures; formed large collection of antiquities which passed to Metropolitan Mus Art, NYC; director of latter 1879-1904. Biog E McFadden, *The Glitter and the Gold*, 1971.

1223. -----1882 Salaminia: the history, treasures, and antiquities of Salamis in the Island of Cyprus... London, 1882. Allibone, *Suppl*, 1, p 305: "little more than an illustrated catalogue of a considerable collection of antiquities dug up, not at Salamis only, but at other sites as well, and does not contain any objects of the first order of interest." Not seen.

1224. -----1884, 2nd edit

Salaminia | (Cyprus) | The History, Treasures, & Antiquities | Of | Salamis In The Island Of Cyprus. | By | Alexander Palma Di Cesnola, F.S.A., | Member of the British Archaeological Association, and of the Society of Biblical Archaeology; | Hon. Member of the Royal Academy of Medicine, and of the Philotechnic Society, | Turin; etc., etc., etc. | With an Introduction, | By | Samuel Birch, Esq., D.C.L., LL.D., F.S.A., | Keeper of the Egyptian and Oriental Antiquities in the British

Museum. | And | With Upwards Of Seven Hundred Illustrations, | And Map Of Ancient Cyprus. | Second Edition. | [woodcuts of 2 coins] | London: | Whiting & Co., 20 & 32, Sardinia St., Lincoln's Inn Fields. | [rule] | 1884.

8°: [5], [1 blank], xlv, [1 blank], 276, [2]p.; tip-in front pl with tissue; 1/2tp with vignettes; large vignetted dedic; 39 tip-in wood engrav pls(includes Cyprus map); 361 text fig; many headpcs, ch orns, orn inits. Olive-green cloth, black vignette on cover with gold title; black rules & vase on spine with gold rule & title; two black vases on back cover. Dk brown, dull endp. 26.3 x 18.2 cm(10 3/8 x 7 1/4 in). Uncut. JSL.

Cont: 1/2tp; pl; tp; print data; dedic; introd; illustr; prefs; tab cont; description of pls; ill list; 23 chs; index; [2]p adverts.

A detailed description of a large nunber of antiquities unearthed during excavations in old graves, city sites, etc, on Cyprus, particularly at Salamis. The preface of this edition contains a short biography of Cesnola. The first chapter is a geographical-historical description of Salamis and the second is a general account of the classes of objects found. The remaining chapters describe the objects within each class, in some instances according to material, as gold, silver, lead, etc, or according to use, eg, lamps, coins, etc. There are chapters on ivories, p 72-7, bone and shell, 78-83, stone objects, 84-109, passim, and including vases, some amulets of special interest, alabasters, p 110-3, and several chapters, p 114-60 dealing with ornamental gemstone objects as seals, beads, scarabs, engraved gems and loose gemstones,with ample illustrations and a plate showing engraved gems. Ch 16, p 155-60, takes particular notice of objects made from chalcedony and other hard gemstones and includes a plate showing figurines, busts, bowls, and others, made from chalcedony.

1225. -----1877

Cyprus: | Its Ancient Cities, Tombs, | And Temples. | A Narrative of Researches and Excavations | During Ten Years' Residence As American Consul | In That Island. | By | General Louis Palma Di Cesnola, | Memb. Royal Acad. Sciences, Turin. | With Maps And Illustrations. | London: | John Murray, Albemarle Street. | 1877. | [The Right of Translation is reserved.]

8°: xix, [1 blank], 448 p; blank f supplied at each end with fly f; 60 pls(48 pictorial, 12 inscriptions) integral & includ in pag(most pls printed one side only); 42 text wood engrv; 2 maps bound-in at end of text(one col); woodcut tailpc. Dk green pebbled cloth, elaborate gold frame of Cypriote motifs on cover with an arm-ring and gold title in center; elab orn rules & bands on spine, urn & title in gold; back cover blind frame. Dk green dull endp. 22.A x 15 cm(9 x 5 7/8 in). Teg. Cut. 50s. JSL.

Cont: blank f + 1/2tp; tp; print data; dedic; pref; tab cont; ill list; introd; 11 chs; apnends; index; maps + blank f.

Highly interesting account of the author's residency in Cyprus where he developed and put to good use an interest in the antiquities of the island and arranged for extensive excavations. The text is considerably more than a mere narrative because it also furnishes historical details from previous writers on ancient Cyprus as well as accounts of present-day customs of the inhabitants and the problems associated with excavation, Allibone, *Suppl*, 1, p 305, quotes *Nation*, vol 26, p 186: "it is interesting as the best book of travel that one recalls..." Furthermore, the work is handsomely illustrated in the ornate style typical of Cesnola's period, while the two maps are a geographical one of the entire island and another showing the routes taken by the author. Of particular interest to the student of engraved gems is the final chapter, on Curium, in which much is said about jewels, gemstones, and engraved gems as found in the tombs, p 293-350. Cesnola invited a contribution from Charles W King as the current acknowledged authority on engraved gems and this study (appendix, p 253-92), forms an important analysis of the rings, cylinders, and engraved gems; it is illustrated with 11 plates. See commentary of Wm C Prime on the Cesnola antiquities, *Harper's Mag*, 55, 1377, p 333-44, ill.

1226. -----1878, same, NY edit

Cyprus: | Its Ancient Cities, Tombs, And Temples. | A Narrative Of Researches And Excavations During | Ten Years' Residence In That Island. | By | General Louis Palma Di Cesnola, | Mem. Of The Royal Academy of Sciences, Turin; Hon. Mem. Of The Royal Society Of | Literature, London, Etc. | With Maps And Illustrations. | [logo] | New York: | Harper & Brothers, Publishers, | Franklin Square. | 1878.

8°: xvi p + [2]f(maps) + p [xvii]-xix, [1 blank]p + 456 p + 3 p advert + [1] blankp; blank f supplied at each end with flyleaves. An additional cut supplied in the append after the index; front portr cut of Cesnola now faces tp; this and all other pls supplied with tissues. Dull red-brown cloth, ancient Cypriote motifs on front cover with ancient writing and the word "Cyprus" stamped over in gilt; ancient writings on spine with panel enclosing gilt title; similar writing back cover. Chocolate brown endp. 22.7 x 15.5 cm(9 x 6 in). Teg, edges uncut. Cloth $7.50; 1/2 calf $10.00. Dedic now to Hiram Hitchcock; other minor changes.

1227 -----187-?, Ger edit. Cypern. Seine alten Städte, Gräber und Tempel. Deutsche b-arb. von L.Stern. Vorwort von G.Ebers. Mit 2 Karten, 108 tafeln und Abbild. Leinen, XXII, 442 p. Not seen.

1228. CEYLON GOVERNMENT. PEARL FISHERY REPORTS

The pearl banks of Ceylon passed into the possession of the British Government in 1797 but the earliest formal report on their condition, according to Kunz & Stevenson, *Book of the Pearl*, biblio, is dated 1863. These reports, compiled from several sources, are listed chronologically.

1863. Ceylon Pearl Fisheries. Report to the Governor Sir Henry Ward, February 28, 1863, by George Vane. Ceylon 1863. Not seen

1867. Report on the pearl oyster banks, with some observations on their management, and the probable cause of their failure. By E[dmund] W[illiam]. H[unt]. Holdsworth, F.L.S., Etc., ordered by his Excellency the Governor to be printed. Colombo... 1867, 11 p. JSL.

1868. Report on the conditions and prospects of the pearl oyster banks, 1868. Colombo, 1868. Kunz & Stevenson; not seen

1875. Report... ditto; not seen

1876. Reports on the inspection of the pearl oyster banks. By James Donnan... Inspector. Colombo 1876. 15 p. JSL.



L. Palma di Cesnola

CYPRUS:

ITS ANCIENT CITIES, TOMBS, AND TEMPLES.

A NARRATIVE OF RESEARCHES AND EXCAVATIONS DURING TEN YEARS' RESIDENCE IN THAT ISLAND.

BY

GENERAL LOUIS PALMA DI CESNOLA,

MEM. OF THE ROYAL ACADEMY OF SCIENCES, TURIN; HON. MEM. OF THE ROYAL SOCIETY OF LITERATURE, LONDON, ETC.

WITH MAPS AND ILLUSTRATIONS.

NEW YORK:
HARPER & BROTHERS, PUBLISHERS,
FRANKLIN SQUARE.
1878.

1226. Titlepage and facing portrait of Cesnola in his "Cyprus", from which numerous engraved gems were collected

1877. Report on the pearl fishery of 1877. By W[illiam]. C. Twynam Government Agent, Northern Province. Colombo... 1877, 17 p. JSL.

1878. Report on the inspection of the pearl oyster banks. 1878. By James Donnan... Inspector. Colombo... 1878. 6 p. JSL. The running title now reads "Sessional Papers.. ."

1879. Report on the pearl fishery of 1879. Colombo... 1879. Sessional papers. Signed: W.C.Twynam. 12 p. JSL.

1880. Report on the pearl fishery of 1880. By W.C.Twynam... Colombo... 1880. Sess Rept. 18 p. JSL.

1880. Pearl fishery, 1881 [sic]. Report of a recent inspection of the pearl banks by Captain J.Donnan, Inspector of the Pearl Banks. Colombo... 1880. Tp + [1]p text. JSL.

1881. Report on the pearl fishery of 1881. By W.C.Twynam... Colombo... 1881. Sess papers. Tp + 24 p. JSL.

1883. Pearl banks. Report of a recent inspection of the pearl banks. By Captain J.Donnan... Colombo... 1883. Sess papers. Tp + [1]p. JSL.

1884. Report on the pearl fishery off Chilaw. By Captain J.Donnan ... Colombo... 1884. Sess papers. Tp + 9 p. JSL.

1885. The pearl banks. Report of a recent inspection of the pearl banks. By Captain J.Donnan... Colombo... 1885. Sess papers. Tp + 9 p. JSL.

1885. Report on an experimental cultivation of pearl oysters, by Captain J.Donnan... Colombo... 1885. Tp + [1]p. JSL.

1886. The pearl banks. Report of a recent inspection of the pearl banks by Captain J.Donnan... Colombo... 1886. Sess papers. Tp + 8 p. JSL.

1887. The pearl fishery of 1887. Reports by the Superintendent of the Fishery and the Inspector of the Pearl Banks... Colombo... 1887. Sess papers. Tp + 29 p. Signed by Twynam and Donnan. JSL.

1888. The pearl banks. Report on the failure of oysters on the Cheval Paar by Captain J.Donnan... Colombo... 1888. Sess papers. 4 p. JSL.

1888. The pearl banks. Further report explaining the disappearance of the oysters from the Cheval Paar By Captain J.Donnan... Colombo...1888. Sess papers. 4 p. JSL.

1888. The pearl banks. Report of an inspection of the pearl banks. By Captain J.Donnan... Colombo... 1888. Sess papers. Tp + 9 p. JSL.

1889. Report on the pearl fishery held at Dutch Bay during March, 1889. By W.C.Twynam... Colombo... 1889. Sess papers. Tp + 12 p, part col map. JSL.

1890. Report on the pearl fishery held at Marichchukkaddi during 1890. By W.C.Twynam... Colombo... 1890. Sess papers. Tp + 8 p, 3 fold maps. JSL.

1891. Report on the pearl fishery held at Marichchukkaddi during 1891. By W.C.Twynam... Colombo... 1891. Sess papers. Tp + 10 p, 3 maps, part fold, part col. JSL.

1899. Report on the Ceylon pearl fisheries. Sess papers. Ceylon,1899. Not seen: Kunz & Stevenson.

1899. ditto, Colombo 1900. Kunz & Stevenson; not seen.

1900. Report on the inspection of the pearl banks in March and April, 1900. By Captain J.Donnan... Colombo... 1900. Sess papers. 4 p. JSL.

1901. Ditto... 1901. By Captain J.Donnan... Colombo... 1901. Sess papers. Tp + 3 p. JSL.

1902. Reports on the pearl fisheries of Ceylon. Preliminary report by Professor W.A.Herdman... Letter from Sir W.C.Twynam... Report on the inspection of pearl banks in 1902, by Captain J.Donnan... Colombo... 1902. Sess papers. Tp + 8 p. JSL.

1903. Reports on the pearl fishery of 1903... Colombo... 1903. [by various authors]. Sess papers. Tp + 25 p; text map. JSL.

1904. Reports on the pearl fishery of 1904... Colombo... 1904. [by J.P.Lewis & J.Hornell.] Sess papers. Tp + 48 p, 3 text maps, one col; text fig. JSL.

1904. Report on the biological results of the pearl fishery of 1904. By James Hornell... Colombo... 1904. Sess papers. [2] + 19 p; 2 text fig; 15 pls(diagrams, maps(3 col), 2 photos, col pl (of oysters), graphs). JSL.

1905. Reports on the pearl fishery of 1905... [various authors, principally J.P.Lewis & J.Hornell]... Colombo... 1905. Tp + 58 p, 2 fig, map. JSL.

1905. Report on the Placuna placenta pearl fishery of Lake Tampalakamam, By James Hornell... Colombo... 1905. Sess papers. Tp + 9 p; 3 pls(drawings & 2 part col maps). JSL.

1906. Report on the November inspection of the Ceylon pearl banks, 1905. By James Hornell... Colombo... 1906. Tp + 12 p, 2 maps. JSL.

1906. Report on the operations on the pearl banks during the fishery of 1905. Sess papers. Pt 2, vol 1, 1906, p 55-79. Kunz & Stevenson, not seen.

1906. Leasing of the pearl fisheries of Ceylon. By Earl of Elgin. Sess papers. Colombo, 1906. p 650-1. Kunz & Stevenson; not seen.

1229. CEYLON GOVERNMENT. MARINE BIOLOGICAL REPORTS. Report of an inspection of those Ceylon pearl banks under government control, situated between Dutch Bay Point and Negombo. Conducted by the Ceylon Company of Pearl Fishers, Limited, from March 4 to 17, 1909. By T.Southwell, A.R.C.Sc.(Lond.), F.L.S., Scientific Adviser to the Company and Inspector of Pearl Banks, and J.C.Kerkham, R.N.R., Superintendent of Fisheries. *Ceylon Marine Biol Rpts* Pt III, June, 1909, No 5, p 145-. Printed by K.M. Richards... Ceylon, 1909.

1230. CEYLON GOVERNMENT. SESSIONAL PAPERS. Report of the sub-committee of the Executive Committee of Labour, Industry and Commerce on the marketing and cutting of Ceylon gems. Sess paper 16, 1939... Ceylon Covernment Press... Colombo... 1939. Edgestapled: [34]p, 3 photo pls on glossy f tip-in; fold index map of Ceylon; large fold map of Ceylon showing gemming areas, part col & tip-in at end of text. Print wrap. 24.7 x 14.9 cm(9 3/4 x 5 7/8 in).

Examines status of the gem industry, laws governing mining, methods of alluvial mining, role of "headmen" in mining and industry, specific mining practises, marketing of rough, cutting, marketing finished gems, and recommendations(Libr Gemm Assoc Gt Brit). Other committees reported on the gem industry as early as 1912(8 p, not seen); another reported on a collection of gems & minerals sent to the British Empire Exhibition, 1924(16 p, not seen).

CHABOUILLET, PIERRE-MARIE-ANATOLE 1814-1899)

Fr archeologist, numismatist; his maternal uncle, Marion Du Mersan, entered him at early age into Cabinet des Médailles of the Bibliothèque Royale, Paris in 1832, where he showed remarkable aptitude in the study of medals, coins, and engraved gems; became a leading numismatist; mbr Légion d'Honneur 1870. *Dict Biogr Franc*, 8, cols 137-8.

1231. -----1858

Catalogue Général | Et Raisonné | Des Camées | Et | Pierres Gravées | De La Bibliothèque Impériale | Suivi | De La Description Des Autres Monuments | Exposés | Dans Le Cabinet Des Médailles Et Antiques | Publié | Sous Les Auspices De S.Exc. Le Ministre | De L'Instruction Publique Et Des Cultes | Par | M.Chabouillet | Conservateur Adjoint Du Cabinet Des Médailles Et Antiques | Membre Du Comité Des Travaux Historiques Et Des Sociétés Savantes | Au Ministère De L'Instruction Publique Et Des Cultes | De La Société Des Antiquaires De Londres, Etc. | Paris | Au Cabinet Des Médailles | Rue Colbert, 12 | [on left:] J.Claye | 7 Rue Saint-Benoit [vertical separation rule] [on right:] Rollin | 12 Rue Vivienne | [below:] Tous droits réservés [1858]

12°: [3], [1 blank], VIII, 634, [2 blank] p; pale greenish-blue print wrap. Blank f supplied at front to act as endp; last blank f of text is pasted down as liner to back cover. 18.5 x 11.7 cm(7 1/4 x 4 5/8 in). Uncut. 3 Fr.50. USGS Kunz Coll, GS 33-226; JSL.

Cont: 1/2tp; print data; tp; blank p; part tp; abbrev list; pref; text; suppl; addits & corrects; explan of pictures; index; blank f.

First part on cameos and engraved gems in the Imperial Library, now the National Library of France, p 1-354, and the second part on vases, busts, statuettes and other objects, p 355-614, with a supplement for all categories. In addition to ordinary engraved gems, the first part also treats a number of small carvings in gem materials as well as various vessels which may be decorated with carved surfaces. Far from being a mere listing, this excellent work contains many notes, short biographical sketches, and other insertions designed to make the catalog more interesting and to explain important historical aspects of certain objects and gems. Inasmuch as many were

obtained from famous collections assembled by important persons, such comments are invaluable. Indeed, the normally conservative C W King is moved to remark in his *Antique Gems and Rings*, 1, p 463, that this catalog is "a perfect model of a descriptive catalogue, full of valuable information respecting the history of the more important Numbers, compiled with immense research and scrupulous minuteness." Vinet, 1661, "très bon;" Goodland, p 116. However, and as is often his case, Furtwängler, *Die antiken Gemmen*, 3, p 427, calls it a "hasty uncritical work," claiming that many modern gems are described as antique and that the descriptions are "very inexact."

1232. -----1861 Description des antiquités et objets d'art composant le Cabinet de M.Louis Fould. Paris, 1861. Folio, iv, 200 p, 49 pls, many text figs. Only 300 printed. Not seen; from a bookseller's catalog, 1971. Mentioned by Furtwängler, 3, p 428. Includes engraved gems(Pls 7-10).

1233. -----1879

A.Chabouillet | [rule] | Le Camée | Représentant | L'Apothéose De Napoleon Ier | Gravé | Par M.Ad.David | D'Après Le Plafond D'Ingres | [orn rulel | Paris | Eugène Belin, LibraireÉditeur | Rue De Vaugirard, 52 | [rule] | 1879

8°: 16 p; bound-in front pl of cameo; pale green wrap, title in frame on cover 21.9 x 13.7 cm(8 5/8 x 5 3/8 in). Cut. USGS Kunz Coll, GS 34-763.

David, Adolphe(1828-1896); Ingres, Jean Auguste Dominique(1780-1867).

1234. -----1886

A.Chabouillet | [rule] | Étude | Sur | Quelques Camées | Du Cabinet Des Médailles | [rule] | (Extrait de la Gazette archéologique de 1885- 86.) | Avec corrections et additions. | [rule] | Paris | A.Lévy, Éditeur, 13, Rue Lafayette | [rule | 1886

Originally in *Gazette archéologique*, 10, 1885, p 396 ff; 11, p 16 ff; 130 ff, and 169 ff. Separate: 4°: 52 p, 3 dk sepia photo pls tip-ins at end. Tan wrap, title on cover; adverts back cover. 32.8 x 25 cm(12 7/8 x 9 7/8 in). Uncut. USGS Kunz Coll.

CHAGNON, H E, see MACFALL, R P

1235. CHALMERS, R Oliver (1911-) Some aspects of New South Wales gemstones. *J of the Proc Roy Soc NSW*, Sydney, 89, 2, 1956, p 90-108, 4 figs. Not seen.

1236. -----1967

Australian Rocks, Minerals | And Gemstones | R.O.Chalmers | Curator of Minerals, The Australian Museum, Sydney | Angus And Robertson [Sydney, 1967]

16°: xvi, 398 p + [3]f blank; 42 col photos, 70 b&w photos, all on both sides of 20 bound-in glossy f; 48 figs; tabs. Black cloth, gold lett spine; green-blue endp; col dj with photos, resume, vita. 23.5 x 15.3 cm(9 1/4 x 6 1/8 in). Cut. AUS $10.75. LC 67-16094. JSL.

Cont: 1/2tp; tp; publ data; ackn; fwd; pref; tab cont; pls list; 11 chs; biblio(p 357-61, 123 entries); subj index; loc index; 3 blank f.

Popular treatment, beginning with generalities on geology, petrography, mineralogy, deposits, gemstones & ornamental stones, collecting & storage, etc. Special chapters on gemstones, p 301-30, and ornamental stones, p 331-48. Rev *J Gemm*, 11, 3, 1968, p 96 "emphasis of this well written book is upon the rocks and minerals... rather than gemstones;" *G & G*, 12, 9, 1968, p 289-90; *Austral Gemm*, 74, 1967, p 12-3. Unchanged reprints 1968, 70, 71.

1237. -----1968, New York Same tp but with logo after author's name and "American Elsevier Publishing Company" and place & date. LC 67-31257.

1238. CHAMBERLAIN, THOMAS K Annual growth of freshwater mussels. *US Bur Fisheries Document* No 1103, Wash, DC, centerstapled, print wrap, p 713- 39, 18 figs, 16 tabs; several photos on glossy tip-in f. JSL.

1239. CHAMBER'S MISCELLANY Pearls and pearl-fisheries, Edinburgh, 10, 1871, p 1-32, 5 woodcuts. JSL. Excellent survey in popular style. Also issued in the bound volume of the *Miscellany*, 1847, 19, no 167.

1240. CHAMIER, J DANIEL

The | Dubious Tale | Of The | Diamond Necklace | By | J.Daniel Chamier | [logo] | London | Edward Arnold & Co. [1939]

8°: 294, [2 blank]p; front pl of necklace + 7 others, all on pale tan semi-glossy paper, tip-ins but text pls printed in dk brown ink. Dk dull green cloth-type paper over bds, gold spine title. 21.5 x 13.9 cm(8 1/2 x 5 1/2 in). Cut. JSL.

Cont: 1/2tp; pl; tp; publ data; pref; tab cont; ill list; 17 chs; notes; index; 2 blank p.

The story of the diamond necklace sold to Queen Marie-Antoinette of France, in which the author carefully sets down the findings of his research and concludes that the queen actually did purchase the necklace and took possession. Detailed description of necklace in notes.

1241. -----1939, New York

The | Dubious Tale |... | New York | Longmans, Green & Co. | London: Edward Arnold & Co. | 1939

Bright blue, slightly iridescent cloth, silver spine title, te stained blue; very pale blue dj with pale gray ill of necklace overprinted by dk blue title; flap resume. 22 x 14 cm(8 5/8 x 5 1/2 in). Cut. JSL.

1242. CHAMPION, FRANK CLIVE(1907-)

Electronic Properties | Of | Diamonds | F.C.Champion, M.A., Ph.D., F.Inst.P. | Professor of Experimental Physics, King's College, | University of London | London | Butterworths | 1963

8°: vii, [1 blank], 132 p; 33 fig(2 on tip-in glossy f). Red cloth, gold lett spine; col dj, resume. 18.1 x 12.1 cm(8 1/8 x 4 3/4 in). Cut. 25s. JSL. LC 64-9675.

Cont: 1/2tp; publ; tp; publ data; tab cont; pref; text; index.

Part one, 8 chapters: optical properties of perfect and defect-containing crystals, electronic and photo-conductivity properties, diamonds as counters, radiation damage & effects, semi-conducting diamonds; electro-luminescence. Second part, one

large chapter: interpretation of electronic properties from solid-state theoretical viewpoint; refs for each ch.

1243. CHANDLER, HENRY P Industrial diamond, a materials survey. *US BuMines Circ* 8200, Wash, DC, 1964. Edgestapled, X, 149, [1 blank]p; photo front, 20 figs, 63 tabs. Pale green print wrap. 26 x 20 cm(10 1/4 x 7 7/8 in). Cut. $.75. JSL. Excellent summary of the then available data. Topics: forms of diamond, properties, uses, substitutes, synthesis, history, geology and descriptions of deposits, world reserves, technologies of mining & recovery, salvage of used diamond, world production & consumption, structure of the industry, marketing, research & development applied to uses & synthesis, strategic factors. Appendices: U S Govt wartime orders, patents, brief glossary. Almost all chs terminated with extensive lists of references, of which there is a total of 533, with some being repeated. Little noticed by writers on diamond, this pamphlet contains more sound and diversified information than many monographs on diamond which claim to be comprehensive.

1244. CHANG HUNG-CHAO Lapidarium Sinicum: a study of the rocks, minerals, fossils and metals as known in Chinese literature, by H.T.Chang. *China Geological Survey Memoirs*, Ser B, no 2, May 1921, ix, [348]p, 11 pls(1 col), fold tab. 26 cm. Not seen. See GS 25-13.

1245. -----1927, 2nd edit. Shih ya: lapidarium Sinicum. 2nd edit., 2 + 2 + 4 + 8 + 432 p + xx pls. Peking, 1927. Not seen; from Hansford, *Chinese Jade Carving*, p 127, p 20, "of Chinese lapidaria the most comprehensive is a modern work...[above]... published in 1921... a second edition, revised and enlarged, appeared in 1927. This book, comprising over four hundred quarto pages of closely-printed characters, is a study of the rocks, fossils and metals, as known in Chinese literature'. The author brought to his task a wide acquaintance with that literature, a knowledge of mineralogy, and an ample measure of patience and industry." Another source gives the first edition as ix, 362 p, dated 1924, with Chang's initials as "H.T." D'Argence, *Chinese Jades in Avery Brundage Coll*, gives the same data as above. See DEMIÉVILLE, PAUL for a review of the first edition in which he gives the author's name as TCHANG, HONG-TCHAO

CHAPER, MAURICE-ARMAND(1834-1896)

Fr mining eng; studied École Polytechnique 1854, also École des Mines; served in War of 1870-71; participated in many missions to foreign countries in his engineering/geologist capacities, eg Venezuela, Borneo, Cape of Good Hope, Urals. *Dict Biogr Franc*, 8, cols 137-8; obit H. Douville, *Bull Soc Géol Fr*, ser 3, 27, 1899, p 174-90, with biblio of 36 entries, 1868-94.

1246. -----1880

Note | Sur | La Région Diamantifère | De L'Afrique Australe | Par | M.Maurice Chaper | Ingénieur Civil | Ancien Élève De L'École Polytechnique, Membre De La Société Géologique De France | Suivie | D'Un Tableau Résumant Les Études Faites | Par M.Fouqué | Professeur Au Collège De France | Et M.M^{d} Lévy | Ingénieur Des Mines | Sur les roches rapportées de l'Afrique australe par l'auteur | [rule] | Avec 4 Plans Et 8 Planches Photolithographiques | [orn rule] | Paris | G.Masson, Éditeur | Libraire De L'Académie De Médecine | 120, Boulevard Saint-Germain en face de l'École de Medecine | [rule] | 1880

8°: [3], [1 blank], 142, ii p; fold tab rocks bound-in; 3 mine plans(claims), sketch map South Africa; 8 photo pls, bound-in; the photos are cut-outs mounted on blank f all at end of text(pls explan f follows the fold tab). Pale green wrap, cover title. 25 x 16.2 cm(9 7/8 x 6 1/2 in). Uncut. GS 34-294; BM(NH); JSL.

Mendelssohn: "Account of the diamondiferous region of South Africa ... The author made a careful examination of the Kimberley, De Beers, Dutoitspan, and Bultfontein mines, and the river diggings. He asserts that the first diamonds were brought from South Africa in 1862, from the Mozambique coast. There is a map of the Cape Colony showing the route to Kimberley and plans of the mines dated 1879. The lithographic views show the state of the open workings and the primitive machinery then in use." Theal p 67. Folding table of rocks condenses information supplied by notes French petrologists Ferdinand André Fouqué(1328-1904) and Auguste Michel Lévy(1844-1911).

1247. -----1886 Note sur une pegmatite diamantifère de l'Hindoustan. *Bull Soc Géol France*, 3e ser, 13, 1886, p 330-45. Also in reprint, printed wrap. From diamonds found among pegmatite debris erroneously concluded they occurred therein. R Bruce Foote: Notes on the Wajra Karur diamonds, and on M Chaper's alleged discovery of diamonds in pegmatite near that place... *Rec Geol Survey India*, 22, 1890, p 39-49; see also P Locke: The supposed matrix of the diamond at Wajra Karur, Madras. *Rec Geol Survey India*, 23, 1891, p 69-72, Pl X.

1248. -----1893(?)

M.Chaper | Les Mines De Diamant De L'Afrique Australe | [society emblem] | Paris | Au Secretariat De L'Association | (Hôtel des Sociétés savantes) | 28, Rue Serpente, 28 [1893?]

At head of title: Association Française Pour L'Avancement Des Sciences... Conférences de Paris 1892...

Centersewn: 13, [3 blank]p; pale blue wrap, cover title. 23.7 x 14.8 cm(9 3/8 x 5 7/8 in). Cut. JSL.

After a historical introduction, delivers general remarks on the South African diamond mines before the Association, 30 Jan 1892.

1249. CHAPMAN, FREDERICK R The working of greenstone by the Maoris. A paper read before the Otago Institute. *Trans and Proc New Zealand Institute*, Wellington, 24, 1892, p 479-539, litho Pl XXXVIII. Also reprinted: edgestapled, 63, [1 blank]p; pl. Pale red-brown wrap. 21.8 x 13.8 cm (8 5/8 x 5 1/2 in). Cut. USGS Kunz Coll, GS 34-969; BM(NH); Yang 1177. Remarkably complete and valuable study based on many years of personal observation. It is the first substantial description of the nephrite and nephrite-like materials employed by the New Zealand natives, the term "greenstone" is defined, its varieties, sources, curious lore, myths, legends, geography & geology of the producing region, history of the lapidary art, methods of work, special lapidary centers, uses of the finished objects, and information taken from other writers. A large table describes 24 objects; there are several chemical analyses.

1250. CHAPMAN, LEO

Diamonds | in Australia | The Fields and the Prospectors | Leo Chapman [[logo] | Bay Books Sydney & London [1980]

8°: 190, [2 blank]p; 29 col photos on 9 glossy f (front bound-in, others tip-in); 30 b&w photos; 21 diag, maps, charts;

2 tabs. Col wrap, col photo on cover, vita back cover. 23.8 x 16.3 cm(9 3/8 x 6 3/8 in). Cut. ISBN 0 85835 388 1. JSL.

Cont: pl; 1/2 tp; tp; publ data; tab cont; dedic; ackn; 14 chs; 3 appends; biblio(p 141, 11 entries); list of diamond companies; blank f.

The author, a financial correspondent and journalist-researcher, presents a general work on the diamond of which so little is about Australian diamonds that the title is a misnomer. The first chapter not only treats world sources in general but provides the only real specifics on diamond in Australia: several sections indicate the growing interest in diamonds in the country and includes several maps showing geologic provinces and places where diamonds have been found in Western Australia. However, the remaining chapters are more generalities on diamond, mostly those found in Africa, but including other sources, and presenting the usual facts on history, the Rhodes-Barnato controversy in South Africa, diamond magnates, the Oppenheimers, South West African diamond fields, origin, De Beers, cutting, famous diamonds and jewels, and industrial diamonds. Appendix I lists 60 of the largest rough stones, with weights, dates, places, II lists the largest polished gems, and III describes diamond properties and gives a glossary of geological and technical terms. The last section lists 70 companies involved in searching for diamonds in Australia with details on the companies and personnel. The illustrations are of persons, places, mining scenes, famous jewels, rough & cut diamonds, etc, but only three sketch maps are pertinent to Australia. Rev *INDIAQUA*, no 27, 1980, 4, p 143.

CHAPMAN, W T, see MAWSON, D

CHAPPUZEAU, or CHAPPUZEAUX, SAMUEL(1625-1701)

B Geneva; writer & translator working in Paris; publ first 2 vols Tavernier's *Voyages* of 1682; wrote numerous works; d Zell. *Biogr Univ* 8, p 38-9.

1251. -----1665

Histoire | Des | Ioyavx | Et Des principales | Richesses [De L'Orient | & | De L'Occident. | A Geneve | chez Iean Herman | Widerholt. | M. DC. LXV. [1665; above is full engrav tp with female figures labeled "America" and "Asia", left & right respectively; printed tp below]

Histoire | Des Ioyavx, | Et Des Principales | Richesses de l'Orient & | de l'Occident. | Tirée des diuerses Relations des plus | fameux voyageurs de nôtre siècle. | Piece curieuse, | Et accompagnée de belles recherches pour | la connoissance de l'Uniuers, & | pour le Commerce. | Suiuie d'vne description exacte des | Regions & des lieux, dont il est | parlé dans cette Histoire. | [orn] | A Geneve, | Pour I.H.Widerhold. | [rule] | M. DC. LXV.

12°: engrav tp bound-in + 180 p; $*^4$, A-G^{12}, H^6; this copy lacks star-one, a blank f? or is the engrav tp serving as such? Wood engrav inits, ch orns. 14 x 7.7 cm(5 1/2 x 3 in). Cut. Hauck Libr; USGS Kunz Coll, GS 34-488, copy from Sir Isaac Newton's libr.

Cont: engrav tp; tp; advert; tab cont; text.

The text is in two parts, the first, of six chapters, describes gemstones beginning with diamond, then those of color, pearls, coral, amber yellow stones, the metals, ambergris, bezoar, indigo and other "rich productions" of the East and West Indies, and including salts. The second part describes the places which are referred to in the first part, from Abyssinia to Visapur. Valentine Ball, in his *Travels In India By Jean Baptiste Tavernier*, 1889, 2, p 471-6, comments at length on this book and reproduces a review of same which originally appeared in the *Philosophical Transactions of the Royal Society of London*, 2, 1667, p 429-36. This is followed by Ball's own review of the English translation (see below). According to the first mentioned review, "this history treats of diamonds, rubies, emeraulds, pearls, coral, bezoar, yellow amber, ambergris, indigo, &c," and further notes that Chappuzeau provides information on places in India where diamonds are found, how they are mined, and prices demanded for diamonds and other gemstones. The method of pricing pearls is also given along with a table of values. Most of Ball's comments concern his conviction that the information on India "must have been largely founded on Tavernier's original memoirs. If it be the case that Chappuzeau appropriated these without acknowledgment, it would also appear that the English editor pirated Chappuzeau's book."

1252. -----1671, Engl transl

The | History | Of | Jewels, | And of the Principal Riches of | The East and West. | Taken from | The Relation of Divers of the | Most Famous Travellers of | Our Age. | Attended with | Fair Discoveries, | Conducing to the Knowledge of the | Universe and Trade. | [rule] | London, | Printed by T.N. for Hobart Kemp, at the | Sign of the Ship in the Upper Walk of | the New Exchange. 1671.

8°: [16], 128 p; A-I^8, 13.5 x 8.5 cm(5 1/2 x 3 3/8 in). Cut. Another copy: 13.3 x 8.5 cm(5 1/4 x 3 3/8 in, USGS Kunz Coll. BM(NH); De Golyer Coll, Univ Okla. Also catalogued by title in LC 8-30348; under the letter "C[happuzeau]" in BM(Nat Hist) Catalogue, and under "Kemp, Hobart" in other instances.

Cont: tp; blank p; pref; tab cont; text.

This translation is simple and clear. The very large chapter on diamonds notes that they were found in only five places, namely in Borneo, Bengal, and three mines in India, the latter inspiring Ball's comments as noted above. At this early date, Chappuzeau records gemstones from Burma, Ceylon, opal from Hungary, garnet of India, Persian turquoise, and the emeralds of the "West Indies," the latter noted as relatively cheap in price due to flooding of the market. Ch 3 on pearls is famous for its perpetuation of the story that pearls generate from dew drops falling into the gaping shells of the pearl oysters. Rare.

CHARAVEL, R, see MORASSI, A, 1964.

1253. CHARLES, RUSSELL J Rendezvous with rings: finger-rings, their history and legend. *Lap J*, 26, 1, 1972, p 122-5, 142-4, col ills; 2, 412-23, many ills; 4, 658-66, ills; 5, 774-81, ill; 7 refs.

CHARPENTIER, JOHANN FRIEDRICH WILHELM TOUSSAINT von (1728-1805)

Mbr eminent family connected with German mining, originally from Normandy; prof math & phys, Min Acad Freiberg 1767-85; mbr Oberbergamt; dir Alum Works at Schwemsal; mine supt Freiberg. Zittel 38; *Biogr Univ* 8, 246; Pogg 2; *Allgem Dt Biogr* 4, 105-7.

1254. -----1778

Mineralogische Geographie | der Chursächsichen Lande | von | Johann Friedrich Willhelm [sic] Charpentier, |... [6 lines of honors, etc]... | Mit Kupfern. | [engrav vignette, cupids

mining & surveying!] | [orn rule] | Leipzig 1778. | Bey Siegfried Lebrecht Crusius.

4°: XLIV, XVI, 432 p. Engrav front pl + 6 engrav fold-out pls + large engrav & hand-colored geological map. Ward & Carozzi, 473; Adams, *Birth & Dev Geol Sci* 313-5; Zittel, 55-6; A.Geikie, *Founders of Geol*, 2nd, 1905, p 452; Agassiz II, 60.

A classic in geology treating specifically the geology and rock formations, economic geology, etc of Saxony; it is especially noted for including a large folding geological map, only the second such map to use watercoloring to delineate rock types, etc, the first having been published by G Gläser only three years before in 1775. Of gemological interest is Charpentier's careful description of the structure, petrology, mineralogy, veins & vugs, etc of the famous Schneckenstein rock mass noted for many years for supplying quantities of small, gem-quality yellow topaz crystals, p 309-19, with four of the engraved plates being views of the pinnacle from four points of the compass. These were "drawn on the spot"... and "if one compares my drawings with those of Kern's I can only explain differences by saying that Kern was no draftsman," hut he also notes that the exterior of the rock had changed due to extensive quarrying. There are careful, detailed descriptions of the vugs in which the topaz crystals occur, the associated species, the size and crystallographic features of the topaz, inclusions, etc.

1255. CHARUBEL, *pseudonym*

Psychology Of Botany | A Treatise On | Trees, Shrubs, And Plants, Etc., | For The | Cure Of Diseases And Ailments, | Of The | Human System, (Without Medicine), | By | Sympathy (Positive And Negative) On The | Soul Plane, By | "Charubel" (The Great Seer), | A Collegian who trained for the Gospel 60 years ago, gave his | whole life up for the love of Nature and the Study of | the Supernatural Elements, &c., &c. | Author of the Zodiac Symbolized, The Psychic Mirror, The | North Pole Star and Region, The Seer Critic, The | Geozonic Spheres, The Occultist, Astrographical | Revelations, Psychological Experiences, &c. | [rule] | ...[4 lines, quot John Locke]... | [rule] | Leigh: | Percy R.Paine, Printer, 5, Union Street, | Published by R.Welch, Esq., 92 Shuttle Street, Tyldesley, | 1906.

8°: 352 p; tip-in portr pl of author with tissue; 48 line drawings of occult synbols; 40 photos, sketches etc of plants on 11 glossy f (on f is blank) formed into a section at end of text and includ in pag. Green or red cloth, gold lett, rules, floral dec on cover & spine; back cover plain. 21.4 x 13.5 cm(8 3/8 x 5 1/4 in). Cut. Aeg. JSL.

Cont: pl; tp; dedic; pref; introd; text; ill; index of diseases; other publ bks.

Text as follows: descriptions of plants to which curative powers attributed p 7-222; psychological properties of minerals 223-65, same for gemstones 267-320, the last including topaz, amethyst, coral, rock crystal, emerald, diamond, ruby, turquoise, sapphire, red garnet and carbuncle. For each is given some curious lore, sometimes a little mineralogical information, and a discussion of the influence of these upon the wearer and also a synbolic line drawing, reminiscent of the kind alchemists used but apparently invented by Charubel himself. Each drawing is called a "seal" and given a "sacred name." As an example, for topaz, the sacred name is SOO-MAH-THU-EL - Di-VOO-MATH-EL, which the reader is instructed to use as an invocation, with specific instructions on such use. A rare book.

1256. CHASE, ILKA

The Court of Jewels | by | Ilka Chase | Historical sketches and photographs | of the famous jewels in the | Winston Collection, shown publicly | for the first time, as a benefit for | the United Hospital Fund in the | Rockefeller Center Forum | [rule] | The setting for "The Court of Jewels" | was designed by Tom Lee. | [rule] | November 23- December 30, 1949 [New York, no publisher]

Centerstapled: [28]p; 11 photos. White print wrap. 22.8 x 15.2 cm (9 x 6 in). Cut. $.25. JSL.

Romantic text describing 13 jewels and single gems; includes Hope, Star of East diamonds, Dudley emerald necklace, Catherine the Great's sapphire.

1257. CHASE, SARA HANNUM

Diamonds | by Sara Hannum Chase | Illustrated with photographs | [orn] | First Book [orn] | Franklin Watts, Inc. | 845 Third Avenue | New York, N.Y. 10022 [1971]

Edgestapled: [5], [1 blank], 90 p; 44 photos. Col plasticized cloth type paper bds; cloth hinge; pale tan endp. 21.5 x 18.2 cm(8 1/2 x 7 1/8 in). Cut. $4.50. LC 78-134835; ISBN 531-0722-7. JSL.

Cont: 1/2tp; tp; dedic & ackn, publ data; tab cont; introd; 10 chs; gloss; index.

Excellent introductory for juveniles: history of diamonds in India, famous diamonds, diamonds in South America, discovery & exploitation of in South Africa; cutting; industrials; synthesis; blue diamonds(includes Hope); modern search for diamonds. Some illustrations from older works. Factual, simply put, helpful to anyone without any previous knowledge of diamond. Rev *G & G*, 14, 1, 1972, p 31.

1258. -----1972, London edit

Diamonds |... | Franklin Watts | London And New York [Franklin Watts, Limited, London W.I.; 1972]

Bright blue cloth-type paper bds; silver spine title; col dj. 21.6 x 18 cm(8 1/2 x 7 1/8 in). Cut. 80p(UK only); later 95p. SBN 85166 205 6.

Slight changes front matter; adds tab of imperial & metric equivalents at end of text. Rev *J Gemm*, 13, 4, 1972, p 151-2.

CHA TA-JUN, *Ku Yu T'ou*, see under that title.

CHATRIAN, N, see JACOBS, H

1259. CHATTERJEE, P K

Annotated Index | Of | Indian Mineral Occurrences | (as in April, 1960) | Part I[-II, III] | (A-E(F-K, L-Z))| By | P.K.Chatterjee, M.Sc., P.R.S.(Cal.), | Superintending Geologist, Geological Survey of India. | (Based on "A Bibliography of Indian Geology and Physical Geography, | with an Annotated Index of Minerals of Economic Value", | by T.H.D. La Touche - 1918.) |... | And Published... Delhi, 1963.

8°: I: [8], 145 p; fold political map of India tip-in at end of text; numerous f canceled & replacements tipped in. II: vi p + p 147-285, same map. III: [2], iv p + p 287-455, same map. Print wraps or wraps over cardbds, cloth hinge. 24.2 x 16 cm(9 1/2 x 6 1/4 in). Cut. Rs.3.50; foreign 8s 2d or $1.26. JSL.

Building materials, including ornamental stones, in Part I, p 45-76; gemstones on 165-90 of Part II and include quartzes, corundums, beryls, apatite, bowenite, chrysoberyl, cancrinite,

diamond, epidote, feldspars, garnets, iolite, jade, kyanite, lazulite, onyx, opal, vesuvianite and zircon. Localities commonly expressed in latitude/longitude but sometimes also with geographical names. Poor quality paper, bindings, and cloth.

1260. CHATTERJI, B K & BASU, A A historical account of the agate industry and its distribution in India. *Quarterly J of the Mythic Soc*, Bangalore, Jan 1961. Not seen.

CHAU, DE LA, see DE LA CHAU.

CHAUSSE, CAUSEO DE LA, see CAUSEO DE LA CHAUSSE

CHAYKOVSKIY, V K, see ALEKSEYEVSKIY, K M, et al

1261. CHEMNITZ, JOHANN JEROME(1730-1800) Versuch einer neuen Theorie vom Ursprunge der Perlen. *Beschäftigungen der Berlinischer Ges Naturforschender Freunde*, Berlin, 1, 1775, p 314-58. Not seen; BM General Libr. J J C a famous Ger naturalist, conchologist; *Biogr Univ*, 8, 325.

1262. CH'ÊN MÊNG-LEI and others Ch'in ting ku chin t'u shu chi ch'eng. The great *lei shu* or encyclopaedia compiled by order of the Emperor K'ang-hsi, 10,000 c.; first published 1726. Edition of 1888. Not seen; from Hansford, *Chinese Jade Carving*, 128, noting substantial sections dealing with jade.

1263. CHENG TE-K'UN The carving of jade in the Shang period. *Trans Oriental Ceramic Soc*, London,1954-55, p 13-30. Not seen; Yang 1190. London: Han-Shan Tang, booksellers, List 28, 1985, no 10, an offprint of 18 pp, 71 ills, 28 x 22 cm, paper: "an analysis of the data compiled by ... of the jades found at Anyang... discussion of techniques of carving."

1264. -----1960 Jade carving articles in his *Archaeology of China*, vol 2,Shang China. Cambridge: W.Heffer & Sons, xxviii, 368 p, 56 pls, jade p 109- 25; vol 3,Chou China, 1963, xxxii, 430 p, 44 pls, jade F 183-99. Not seen, Yang 1192.

1265. -----1966 Some standing jade figurines of the Shang-Chou period. *Artibus Asiae*, 28, 1, 1966, p 34-52. Not seen, Yang 1195.

1266. -----1969

Jade Flowers and Floral Patterns | in | Chinese Decorative Art | by | Cheng Te-k'un | The Chinese University of Hong Kong [1969]

"Reprinted from *The Journal of the Institute of Chinese Studies* Vol. II, No.2, September 1969. 600 copies."

8°: one gathering in 6, several in 5's: [5], [1 blank], xiii, [1 blank], 89, [1 blank]p; 48 photos("plates") on 24 glossy bound-in f, not includ in pag; 48 figs(photos) on 24 glossy f bound-in and not includ in pag; 1 chronological diagram. Glossy title-f tip-in ahead of each of the two illust sections. Pale gray wrap, red title on cover & spine. 26.6 x 19 cm (10 1/2 x 7 1/2 in). Cut. JSL. Yang 1196.

Cont: 1/2tp; ser data; tp; vita & publs of author; tab cont; Chinese summary; figs list; introd; description of jade flowers in general; catalogue of jade flowers in the yü-hua-chai collection with reference to plates; pls section tp; pls; yü-hua in archeology; floral patterns in decorative art; figs section tp; figs; conclusion; biblio(p 83-9, 184 entries); blank p.

"This paper is devoted to the study of a specialized group of carved jade flowers ... thin and light... originally used as units in jewellery or personal ornaments." Study based largely on a private collection in Hong Kong; over 460 examples shown on the plates and briefly described, with dimensions in the catalog of the first part while the second part shows objects of art and decoration in which the flowers were employed. The chapter on the flowers themselves is of special value for its remarks on the types of jades used, methods of carving, sources of jades, and design motifs. Bibliography includes some standard works on jade but most entries are on Chinese art rather than on jade specifically. Commentary by Born, 1982, p 90-1; rev J M Hartman, *Artibus Asiae*, 34, 2, 1972, p 249-52.

1267. -----1976 Jade carving in China. *Bull Oriental Ceramic Soc of HongKong*, 2, 1976, p 43-88. Not seen.

1268. CHENOWETH, HELEN STILES & BHEND, TED The story of the jade clock. *Lap J*, 12, 6, Feb 1964, p 754-60, passim; 13, 1, Apr 1969, p 14-20, passim; 2, Jun 1969, p 314-26, passim, ill. Reprinted:

The Story Of | The Jade Clock | By | Helen Stiles Chenoweth | and Ted Bhend |... [18 lines of credits]... | Copyright 1959 and 1962 | By The Lapidary Journal | Printed By Arts & Crafts Press | San Diego, California

Centerstapled: 11 p + [1] p blank; 17 photos; col wrap(photo of clock). 29.1 x 21.9 cm(11 1/2 x 8 5/8 in). $1.00. JSL.

Full-size grandfather clock made from various American jades and American gemstones for bearings; case of American black walnut; made by members of San Francisco Gem and Mineral Society as a club project. The clock is said to keep accurate time.

1269. CHENTZOVA, L G & VEDENEEVA, N E [Study of nature of smoky quartz coloration on basis of thermal decoloration], *Trudy Instituta Kristallografii*, Moskva, 7, 1952, p 159-90, 16 figs; [The connection of the phenomena of ionic electroconductivity with the phenomena of coloration in smoky quartz], ibid, p 191-202, 13 figs. Not seen.

1270. CHERNYKH, VALERIY NIKOPHOROVICH & SEMENOV, VLADISLAV BORISOVICH

Agat | [col photo] | Sverdlovsk | Sredne-Uralskoe | Knizhnoe Izdatelstvo | 1982 [facing title, recto:]

Agate | [col photo] | Sverdlovsk | Mid-Urals Publishing | House | 1982

Titles in pale brown & black; photos framed in pale brown. In the series: "Kamni Urala" or "Ural Stones."

8°: 159, [1]p; ca 310 col photos; tinted localities map. Pale brown plasticized paper over bds; col photo agate slice with gold salamander on front cover; gold spine title. Pale brown endp. 29.1 x 24.7 cm(11 1/2 x 9 3/4 in). Glossy paper, some with pale brown backgrounds; text headings in pale brown. Cut. 35,000 copies. 15 r. Pale brown cardbd slipcase, col photos both covers.

Cont: ser tp; tps; edit staff list; introd(Russ & Engl); map; localities list; text tp; text; append(extracts from old books, etc p 150-3); ill lists; abbrev; refs(p 159, ca 30 entries); publ data.

A beautifully produced work on agate and other forms of chalcedonic quartz which occur in many deposits in the Central Ural Mountains region as shown upon the index map. For a change, the book is made of high quality materials, tastefully designed, and well constructed, and with color photographs that are considerably superior to those usually found in modern USSR books. The text opens with remarks on the uses of agate in jewelry, talismans, objects of art, table ornaments, caskets, snuff boxes, and in engraved gems, among other applications, and considers objects that are antique as well as modern. These are illustrated by many small color photographs. The next chapter treats chalcedony in its almost endless variations in color and structure, again using numerous small or large color photographs to show them. The captions are in Russian and English. Succeeding chapters discuss origin of agate, agate through the ages, agate as used in very many art and ceremonial applications as well as for decorative purposes, and lastly, a short chapter on notable deposits which are illustrated mostly by scenic views in the vicinities. The use of some English widens the usefulness of this work which really should be translated into that language.

CHERON, ELISABETH-SOPHIE, or *femme de* JACQUES LE HAY(1648-1711)

B Paris; from childhood noted for development many talents, eg, music, poetry, engraving, painting. *Biogr Univ*, 8, p 339-40.

1271. -----1709 Pierres antiques gravées tirées des principaux cabinets de la France. [This title from USGS Kunz Coll, GS 34-365 and GS 34-366; Furtwängler *Die antiken Gemmen*, 3, 408 gives "Elis. Sophie Cheron, uxor Jacobi Le Hay, pierres antiques gravées tirées de principaux cabinets de la France." This title more or less matches the lengthier one given by Mariette, 1, 455 as follows:].

"Recueil des Pierres gravées les plus singuliéres du Cabinet du Roi & des principaux Cabinets de Paris, dessinées en grand d'après les originaux, par Elizabeth-Sophie Cheron, femme de Jacques Le Hay, ou par Marie-ursule De La Croix, niéce du sieur Le Hay, & gravées quelques-unes par Madame Le Hay, & autres par Bernard Picart, Charles Simmoneau, Charles- Nicolas Cochin, & Autres, au nombre de quarante-quatre Planches, mises au jour à Paris en 1709. & années suivantes."

Both Mariette and Furtwängler give 44 plates but USGS GS 34-365 gives 46 which includes a portrait of Cheron and one plate double-leaf. This copy, examined by myself, unfortunately lacks its title leaf, but the plate count was confirmed. The work is 2°, all pls printed recto only, 32.6 x 24.3 cm(12 7/8 x 9 5/8 in). Cropped. Both sets of Cheron plates in the USGS Library are different and the dates of the plates vary, some dated 1709-1717, several dated 1728, and others undated. All are most beautifully engraved and depict gems much enlarged but accompanied by actual size drawings with a statement of material and cabinet. The "beautification" of the gems led to a lively controversy as to their fidelity, a matter which Furtwängler summarizes in his work cited above, p 408-9 see, for example, the prolonged discussion of Mariette, ibid, p 312-28, and his literature references on p 456 and 460. See also Zazoff, *Gemmensammler*, p 45-6. The Cheron work is of considerable rarity.

CHERRY, J, see WARD, ANNE et al

CHERSKIY, N V, see VASILEV, V G, et al

1272. CHESLEY, FRANK G Investigation of the minor elements in diamond. *Amer Min*, 27, 1942, p 20-36, 5 fig, 5 tab; also separately printed. JSL. Emission spectrographs of 33 samples; 30 elements sought, 13 detected; Al, Si, Ca "persistent" group appeared as minor elements in every diamond.

1273. CHESTER, CHANDLER B

The Science Of | Diamonds | [rule] | A Self Educational Book on Diamonds | The Only One Of Its Kind In The World | By | Chandler B. Chester | [orn & rules] | A Practical hand book of references, containing definit- | ions of lapidary's terms, colors, characteristics, localities | of precious gems, methods of mining, etc. | Showing in a tabulated form, the chemical composition, crys- | tallography, lustre, hardness and describing methods of testing, | mineralogical characteristics and a brief history of the famous | diamonds of the world, including the zodiacal signs of precious | gems, etc. | A new light on an old subject, tabulated, concise, authorita- | tive. A handy manual for every person interested in diamonds. | Chester & Bergman, | Publishers | Chicago [1910]

Edgestapled: 56 [first 2 p blank], [8 blank]p; 24 fig, tailpc. Blue cloth, pale blue paper title label, with illustration of a judge at his bench, enclosed in frame, pasted to cover. 19 x 13.2 cm(7 1/2 x 5 1/4 in). Cut. Pale tan paper. JSL.

Cont: blank f; tp; publ data; pref; tab cont; blank f; text; 4 blank f,

In his preface, the author, a self-acknowledged "diamond expert," states that "while there are some very fine works [on gems] ... these... do not take in the diamond in general," a statement that seems solidly based upon ignorance of existing literature. He goes on to say that with this book, if carefully studied, the reader will be able to rely on his own judgment and will not have to take the "other fellow's word" for what he is getting. Unfortunately, the matters which would enable the reader to select diamonds wisely are all condensed within a few pages while the vast majority of pages are devoted to discussions of such topics as diamond properties, geology and mineralogy of deposits, mining methods, cutting, and so on, in fact, almost on every other topic except how to identify a well-cut, well-proportioned, and flawless stone. Very scarce.

1274. CHESTERMAN, CHARLES W Nephrite in Marin County, California. State of California, *Division of Mines Special Rept* 10-B, Jul 1951. Centerstapled: 11 p, 16 fig(2 sketch maps). Pale green print wrap. 28 x 21.5 cm(11 x 8 1/2 in). Cut. $.25. JSL. Gem nephrite at Massa Hill, Marin County: geology, type deposits, mineralogy, origin. GS 51-132.

CHESTERMAN, C W, see CALIFORNIA DIVISION OF MINES; also YODER, H S

1275. CHETNIK, ADAM O bursztynie i przemyśle bursztyniarskim. Nowogród: Goniec Pograniczny, 1923. 16°: 40 p, ill, bibliogr. poz. 12. Bibl. Pogranicza Prus Wsch. Nr 2 Toz. *Drużyna* R. 10: 1923 nr 10, pp 2-5; nr 11, 8-10; nr 12, pp 3-6; nr 13/14, pp 9-10; nr 15/16, pp 2O-23; nr 17, pp 12-15. Not seen. On Baltic amber.

1276. -----1952 Przemysł i sztuka bursztyniarska nad Narwią. *Lud*, t.39. 1948- 1951, druk 1952, pp 355-415, ill, tab, map; resume pp 712-14; summary pp 737-40; not seen. Above

entries from Polska Akademia Nauk, Muzeum Ziemi, amber bibliogr, Warsaw 1972.

1277. CHETTY, SAM CASIE

Sam Casie Chetty | Smycke | stenar & sten | slipning | ICA bokförlag Västerås [1981]

8°: 180 p; over 100 photos & line drawings(several tabs counted as figs); 31 col photos on 4 bound-in glossy f. Col plasticized paper bds; col photos both covers; orange spine, black lett. Pale yellow-orange endp. 24 x 16.8 cm(9 3/8 x 6 5/8 in). Cut. ISBN 91-534-0665-6. JSL.

Cont: 1/2tp; captions & publ data; tp; 2 unnumb photos; fwd; tab cont; introd; 8 chs; biblio(p 174-5, 21 entries); index.

"Ornamental stones and stone cutting" is based substantially on John Sinkankas' Gem Cutting and duly acknowledged. Treats: physical/optical properties of gemstones, crystallography, cutting styles, cabochon, faceting work, table of gemstone descriptions with facet angles where appropriate, other tables of hardness, density, refractive index, pleochroism, gemological classification, and nomenclature, misleading names, birthstones, zodiacal stones, etc. Handsome production; color photos printed too dark.

CHEVALIER, P, see LEGRAND, J

1278. CHEVASSUS, ALPHONSE

Le Guide | Du | Joaillier Et Du Bijoutier, | Concernant | Les Pierres Précieuses Et Fines, | Avec | Le Moyen De Les Reconnaitre Et De Les Évaluer, | Par | Chevassus (Alphonse), | Ancien Lapidaire. | Orné d'une gravure représentant les cinq principaux Diamants du | monde dans leur grandeur naturelle, | Prix: Un Franc. | Paris. | Chez Duterte, Libraire=Editeur, | Passage Bourg-l'Abbé, 20 | [rule] | 1844.

12°: 67, [1 blank], [4 advert]p; litho front pl facing title bound-in. Tan wrap, title in orn frame on cover; advert back cover. 18.7 x 11.6 cm (7 3/8 x 4 5/8 in). Uncut. USGS Kunz Coll, GS 33-323.

Cont: pl; tp; print data; dedic; introd; 18 chs; tab cont; blank p; adverts.

Contains a history of gemstones, the arts of the lapidary in respect to the cutting of diamond and other stones, engraved gems, descriptions of gemstones arranged according to color and also by mixed color, or display of some special optical effect, and lastly, opaque gems. The frontispiece plate depicts, inaccurately, the five largest world diamonds, namely, Mogol, Sancy, Tuscany, Regent, and a 779-carats stone of Russia; the Sancy and the Russian stone are particularly fanciful, the Russian stone resembling a faceted egg. None of the text information is noteworthy.

CHEVRIERES, DE, see CANINI, G A & M A, 1731.

1279. CHEYROUZE, PAUL

Paul Cheyrouze | Chargé de mission | Sahara 1887-1890 - Océanie 1901-1904 | Columbie 1905-1906. | [rule] | La Perle | L'Or et les Pierres Précieuses | dans le luxe. | [wavy rule] | Préface de M.Levasseur | Membre De L'Institut | Directeur Du Collège De France | [orn rule] | Paris | Augustin Challamel, Éditeur | Rue Jacob, 17 | Librairie maritime et coloniale. | 1910

8°: 227 p; blank f before & after; the first [2]f also inserted and pasted to first gathering. Pale gray-green print wrap. 18.8 x 12 cm(7 1/2 x 4 3/4 in). Uncut. JSL.

Cont: blank f + 1/2tp; tp; pref; fwd; 8 chs< tab cont; blank f.

Levasseur states that the author is an uncontested expert in pearls due to his personal experience derived from visits to the principal pearling regions. To place pearls in their true perspective in relation to other gemstones, considerable material on them is embodied in the text. Accordingly the first chapter discusses the early history of jewelry, some famous wearers of jewelry, as well as gemstones used in antiquity. The second chapter treats pearl historically, with mentions from the writings of ancient authorities, while several chapters discuss the pearl and its animal sources, the life history of the mollusks, famous pearling grounds, pearling, and pearl lore. Brief statements on the curious lore of gemstones appear in chapter seven while the last chapter contains a miscellany of information on synthetics and gem & pearl imitations. The work is poorly organized but contains much interesting information, especially that concerning pearl, which remarks are also the most valuable for being based on the author's firsthand knowledge. A scarce, little-known and rarely-cited work.

1280. CHHIBBER, HARBANS LAL

The | Mineral Resources | Of Burma | By | H.L.Chhibber | D.Sc., Ph.D., D.I.C., F.G.S., F.R.G.S. | ... [6 lines of honors, apptmts] ... | Macmillan And Co., Limited | St.Martin's Street, London | 1934

8°: xv, 320 p; 9 tip-in photo pls; tip-in fold sketch map; 13 figs (maps). Dk green cloth, blind rules on covers; gold rules, lett spine. Pale tan endp. 21.6 x 14 cm(8 1/2 x 5 1/2 in). Cut. LC 35-9239. JSL.

Cont: 1/2tp; publ offices; tp; publ data; dedic; pref; tab cont; ill list; 16 chs; gen index; locality index. [Refs after each ch.]

Excellent work, still retaining great reference value. Describes type deposits, methods of mining, production & marketing, and lapidary treatment. The first four chapters are of particular interest to the gemologist: 1 treats broadly the geological and geographical distribution of mineral deposits, 2 treats the ruby deposits and the associated species, p 6-22, while 3, a particularly valuable chapter, treats in detail the celebrated jadeite deposits, how they are mined, marketing & trade, etc. p 23-84, while 4, p 85-94, contains information on Burmese amber.

1281. CHHOTILAL, K Diamonds from India. Rev edit. Bombay: Gem & Jewellery Export Promotion Council, 1984. x, 102 p, ill. First edit 1983. Rev *G & G*, 21, 4, 1985, p 252, "comprised of approximately 75% text and 25% statistical tables, it attempts to review all aspects;" *J Gemm*, 19, 7, 1985, p 641. Not seen.

1282. CHIESA, GEMMA SENA

Gemma Sena Chiesa | Gemme | Del Museo Nazionale | Di Aquileia | Testo[-Tavole] | Associazione Nazionale Per Aquileia | 1966 [Aquileia, Italy; in 2 vols, text & pls]

8°: Testo: XIII, [1 blank], [1], [1 blank], 441, [1] blank], [1], [1 blank]p. Tavole: [2 blank], [3], [1 blank], [1], [1

blank]p + Pls A-D, col photos, with lett tissue overlays + Pls I-XCIII in b&w photos, all on glossy f, bound-in + [1], [1 blank] p. One pl/leaf, recto. Red unfin cloth, gold lett cover & spine; pale brown mottled endp. 24.2 x 17.1 cm(9 1/2 x 6 3/4 in). Cut. Both vols in plain cardbd slipcase. Lire 10,000. JSL.

Cont: Testo: dedic; tp; print data; pref; ackn; abbrev & biblio (p IX-XIII, 67 entries); Introd tp; introd(5 chs); catalog tp; note; catalog; indexes tp; indexes; tab cont; colophon; blank p. Tavole: blank f; tp; print data; note; pls tp; pls; colophon; blank p.

Elaborate, detailed, eminently useful annotated catalog of the famous collection of engraved gems in the museum of Aquileia, an ancient town of Friuli Province, at the head of the Adriatic Sea and WNW of Trieste. The large introduction gives the history of the collection, quality and forms of the gems, gems carved from pastes, technique of engraving, important epochs of gem engraving, styles, provenances and remarks on Italian schools that teach gem engraving; everything richly footnoted. Catalog in usual form and with usual details on gems, of which there are 1573 pieces, eg, material, dimensions, provenance, etc. The plates are an interesting departure from the usual practise in that one (and only one) of the color plates gives identity of the minerals upon the printed overlay tissue. The b & w plates are of impressions and enlarged uniformly to 1.3x. All photographs of fair quality only, and one of the color plates is blurred.

1283. -----1978 Gemme di luni. Roma, 1878, 141 p, 25 pls, wrap, 24.5 x 17 cm. Not seen: Thomas Heneage, London, cat 8, 1984, no 316.

CHIFLET, or CHIFFLET, JEAN JACQUES(1588-1660)

B Besançon, Fr; MD & sometime physician to King Philip IV of Spain; great expertise in antiquities; politician; wrote several important books. *Biogr Univ*, 8, p 381-2.

1284. -----1655

Anastasis | Childerici I. | Francorvm Regis, | Sive | Thesavrvs Sepvlchralis | Tornaci Neruiorum effossus, & Commen- | tario illustratus. Avctore | Ioanne Iacobo Chifletio, Equite, Regio Archiatro- | rum Comite, & Archiducali Medico primario. | [engrav vignette, a coat-of- arms] | Antverpiae, | Ex Officina Plantiniana | Balthasaris Moreti. | M.DC.LV. [1655; title in red & black]

4°: [16], 330, 21, [1 blank]p; *-***^{4}, A-Xx^4; 25 text engrav(15 fullp); 1 double-leaf engrav pl tip-in at p 202-3; numerous text wood engrav init, tailpcs. 24.9 x 20.8 cm(9 7/8 x 8 1/8 in). Cut. JSL.

Cont: tp; dedic; tab cont; privilege; approb; text; gen index; index of authors; blank p.

The tomb of Childéric I, the Merovingian king of the Franks who succeeded to the throne in 458, and died about 480, was discovered near Tournai, France in 1653. The treasure buried with him included ornaments, arms, jewels, engraved gems, coins, etc. These are meticulously described and numerous items illustrated on the carefully engraved plates and the separately printed and inserted doublepage plate. Depicted are gold jewelry, some set with gemstones, a fullpage engraving of gold rings set with engraved gems, and another of engraved scaraboid gems. The discovery of the grave is briefly noted by Mariette, *Traité Pierres Gravées*, 1, p 359-60, and the fact that Chiflet, upon order of the Governor of the Low Countries, Leopold-Guillaume, whom Chiflet served as personal physician, examined the treasure and described its contents in the present work. King, *Antique Gems and Rings*, 1, p 463, characterizes the book as "a minute account... contains long and valuable dissertations upon the rings and amulets of the ancients; the latter subject illustrated (p.267) with a well-executed plate of twenty Etruscan scarabei, the first, to my knowledge, ever published. In the plate at p.96 is figured... the pretended signet of St.Louis engraved in sapphire." A rare work.

CHIFLET, J, see MACARIUS, J

CHILMEAD, E, see GAFFAREL, J, 1650

1285. CHILVERS, HEDLEY A

The | Seven Wonders | Of | South Africa. | Hedley A.Chilvers. | With eighteen Coloured Plates by Chas.E.Peers. | Published by Authority of the Administration of the South African | Railways and Harbours. | Johannesburg, 1929.

8°: [2 blank], xiii, [1 blank], 386, [9], [5 blank]p; 18 col pls tip-ins + 94 photos & 10 maps in text. Red or vermilion cloth, blind & gold frames on cover with title in gold; gold title, rules on spine; map endpapers(both different). 21.1 x 13.4 cm(8 3/8 x 5 1/4 in). Cut. JSL.

Cont: blank f; tp; publ data; ackn; pref; tab cont; col pl list; fwd; 26 chs; index; 5 blank p.

"The purpose of this book is to tell the splendid story of Southern Africa, and of the men who adventured far and suffered much to make it great." The discovery of diamonds therefore receives its share of attention, particularly in chs 10 to 13, p 173-209, in which is found the early history of diamond discovery and mining, in the alluvial deposits at first, then in the pipe deposits. There is much of interest and entertainment in the account. A relatively common book. Rev Elsie Ruff, *The Gemm*, 4, 45, April 1935, p 276-8.

1286. -----1930

The Seven Lost Trails | Of Africa | Being a Record of Sundry Expeditions, New | and Old, in Search of Buried Treasure | By | Hedley A. Chilvers | Author of "Out of the Crucible," etc. | With Eight Illustrations By | Alfred Palmer, R.O.I. | And Eight Maps By | H.E.Winder | [logo] | Cassell | And Company, Limited | London, Toronto, Melbourne | And Sydney [1930]

8°: xiii (front pl includ in pag), [1 blank], 241, [1]p; 8 photo pls of paintings on 8 glossy tip in f; 8 text maps. Brownish-red cloth, gold lett spine. Pale tan endp. Tan dj, blue title on cover; resume. 22.1 x 14.2 cm(8 3/4 x 5 5/8 in). Fe partly uncut. Tan, ribbed paper. JSL.

Cont: 1/2tp; pl; tp; publ data; dedic; pref; tab cont; ill lists. 16 ch.

Recites legends concernIng buried treasure, also fabulous diamond, gemstones, and gold deposits in South Africa, with adventure accounts of persons said to have discovered them or connected with the treasures in some way. Gemstones figure in Ch 2 in the story of the lost valley of precious stones, p 10-20. In Ch 3, the story of "The Great Diamond Craters" is the theme, p 21-36. The adventures of Farmer Fourie in his quest of the lost half of the Cullinan diamond makes exciting reading, Ch 9, p 17-29. A few interesting facts about the city of Kimberley

appear in Ch 16, 225-33. Rev by Elsie Ruff, see above. A second impression issued in 1931, not seen, and a cheaper issue in pale tan cloth, black spine title, 18.5 x 12.3 cm(7 1/4 x 4 7/8 in), plain paper, appeared in 1932. Price 3s. 6d.

1287. -----1939

The Story Of De Beers | With Some Notes on the Company's Financial, Farming, | Railway and Industrial Activities in Africa, and some | Introductory Chapters of the River Diggings and Early | Kimberley | By | Hedley A.Chilvers | Author of "Out of the Crucible", "The Seven Lost Trails of Africa", | "The Yellow Man Looks On", etc. | Foreword by | Sir Ernest Oppenheimer | Chairman of the Company | With one colour and | 68 photogravure plates | [logo] | Cassell | and Company, Ltd. | London, Toronto, Melhourne | and Sydney [1939]

8°: xvii, [1 blank], 344, [2 blank]p; photo front portr(Rhodes) tip- in; 96 photos on both sides of 34 tip-in f; col pl of famous diamonds on heavy white paper tip-in, with lett tissue(faces p 134). Other pls on pale tan paper. Brownish-red cloth, gold lett spine. Tan dj, red title on front & spine; resume. 24.7 x 18.5 cm(9 3/4 x 7 1/4 in). Cut. Te stained red. 21s.0d.net. JSL. PJ Hugo et al, 0447.

Special deluxe version, possibly for presentation only: maroon crushed leather, gilt, title in gold in orn frame on cover; frames only back cover; similar spine treatment. Aeg. 24.6 x 18.2 cm(9 5/8 x 7 1/8 in), All paper hand-laid type. Rhodes portr cut-out & mounted on an integral f. Extra blank f after front fly; 2 blank f at end, not counting fly. JSL.

Cont: (standard version): 1/2tp; pl; tp; publ data; fwd; tab cont; ill list; pref; ackn; 35 chs; 8 appends; index; blank f.

A valuable and exceptionally thorough and accurate work, written with the full cooperation of the De Beers organisation, and providing a complete history of the company and its activities, including political, from its formation to the time of writing. There is much factual data and statistics on the company, its subsidiaries, operations, productions, etc, most of it incorporated in the appendices. The latter include sections on major executives, the diamond cutting industry in South Africa, the Voorspoed diamonds, divident payments, and a list of employees killed or injured in World War I. Excellent photographs portraying early scenes in the diamond fields as well as recent views, important officers of the company, and political figures. Indispensible for historical studies of the South African diamond industry. Rev *G & G*, 3, 8, 1940, p 126.

1288. CHINESE ECONOMIC JOURNAL The story of jade, no 1, 1927, p 1-21, not seen.

1289. CHINESE GOVERNMENT

... Illustrated Catalogue Of Chinese Government | Exhibits For The International Exhibition | Of Chinese Art In London | Volume IV. Miscellaneous | [2 lines of Chinese characters; np, nd]

At head of title: 2 lines of Chinese characters; a purple indelible ink stamp reads "Made in China" etc. on title.

Dustjacket: "This catalogue in four volumes contains over 1,000 photos of representative work of ancient Chinese art... Volume I consists of 108 pieces of bronze... Volume II consists of 352 pieces of porcelain... Volume III consists of 175 pieces of painting and calligraphy... Published and Printed by The Commercial Press, Limited Shanghai, China 1936." Price Vol I $3.00, all others $5.00.

8°(Vol IV only): [6], 191, [1 blank], [1], [1 blank]p; many photos, the jade section containing over 61. Bright blue unfin silk, large rect gilt panel on cover with orn border enclosing Chinese characters; Chinese characters on spine. V pale grayish-green endp. Col dj, jade carving on cover; title in red & black; back cover green & black with series info & prices, etc. 26.6 x 19 cm(10 1/2 x 7 1/2 in). Cut. $5.00. JSL.

Cont: tp; leaf with Chinese characters; vol tp; tab cont(in Chinese & Engl); 8 chs: blank p; publ data; blank p.

Treats the minor arts: tapestry, embroidery, jade & hardstone carvings, cloisonne, red lacquer, fans, furniture, writing accessories, archeological exhibits, and ancient books. Jade section, p 31-68, depicts & describes 61 objects of jade but also some of quartzes, stone, rhinoceros horn, and silver. The section is completed with a "Supplementary List of Jade (Lent By Ch-anh Nai-Chi... " Photos of fair quality only.

1290. CHINESE JADE Exhibition of Chinese jade objects. China House, New York, 1946, 16 p, 8 ill, 23 x 15 cm, paper. Not seen: Han-Shan Tang, London List 28, 1985, no 12.

1291. CHINESE JADE, ANCIENT AND MODERN Descriptive catalogue illustrating the most prominent pieces of a collection of jade articles. Berlin: Dietrich Reimer, 1925, 139 p. Not seen: Yang **1217.**

CHINESE JADE THROUGHOUT THE AGES, 1975, see RAWSON, JESSICA & AYERS, JOHN

1292. CHINESE SNUFF BOTTLES A magazine for the collector and student of Chinese snuff-bottles. Edited by Hugh M Moss, 38 Inner Park Road, Wimbledon, London, S W 19.

No 1, nd, 8°: 56 p (including advert); b&w photos; 1 col pl. Orange print wrap. 22.8 x 15.2 cm(9 x 6 in). Cut. JSL.

No 2, nd, 63, [1]p; similar photos, 24 in col; pale green wrap.JSL.

No 3, nd, 76 p, 24 col photos, pale blue wrap. JSL.

No 4, nd, 80 p, 24 col photos; pale brown wrap. JSL.

No 5, May 1969, 144 p, announcement pasted to inside back endp; many col & b&w photos; paper over bds; bright blue cover with photos; col photo advert back cover. 22.9 x 15.2 cm(9 x 6 in). Cut. Contains line drawings as well as photos; many adverts. JSL.

No 6, 1974, xx, 162, [2 blank]p; ill in b&w & col; gilt cloth, inset col photo on cover. A monograph on the Marquess of Exeter collection and fully described under MOSS, HUGH M & THURLOW, KATE, which see.

1293. Not used

CHIOCCO, ANDREA, see CERUTO, BENEDICT

1294. CHOCRON, DAYA SARAI

Daya Sarai Chocron | Heilen | mit | Edelsteinen | Hugendubel [1984]

P [4]: "der deutschsprachigen Ausgabe Heinrich Hugendubel Verlag München 1984."

Cementb: 139, [1 blank]p; 1 b&w photo, 30 col photos on 6 glossy f included in pag. Glossy silver paper over bds; col photo & title on front; spine title; resume back. 21 x 14 cm(8 1/4 x 5 1/2 in). Cut. SBN 3 88034 228 8. DM 24.- JSL.

Cont: 1/2tp; tp; publ data; tab cont; dedic; introd; 8 chs; blank p.

Prevention & cure of all kinds of bodily disorders by application of certain gemstones of certain colors to certain body areas. Based on beliefs in India that gemstones absorb and retransmit beneficial rays. There is a chapter by Günther Braunger on astrological correspondences of gemstones.

1295. -----1986, Engl transl

Healing | with Crystals | and Gemstones | Daya Sarai Chocron | Samuel Weiser, Inc. | York Beach, Maine [1986]

Cementb: x, 128 p; same ill. 20.8 x 13.5 cm(8 1/8 x 5 1/4 in). Cut. $9.95. LC 86-4072; ISBN 0-87728-646-9.

CHOMPOLLION-FIGEAC, see MILLIN, A L, 1826.

1296. CHRETIEN, HENRI Le monde invisible mystérieux des ondes. Influences physiques, physiologiques, thérapeutiques. Paris, nd, 8°: ix, 444 p, in wrap. Ch III: "Les pierres précieuses," p 303-36, with fold tab entitled "Caractères generaux des pierres précieuses," after Louis Dieulafait. Not seen.

CHRIST, JOHANN FRIEDRICH(1700-1756)

B Coburg, Ger; prof history Jena U ca 1730; prof poetry Leipzig U 1740; publ able dissertations on philology & other scholarly matters; edited the first two sections of Daniel Lippert's *Dactyliotheca Universalis*, 1755, 1756; he also discussed the possible identity of the Roman murrhine vases in his *Dissertation sur les vases murrhins des anciens*, 1743. *Biogr Univ*, 8, p 456-8. See also W E Wilson, "Hebenstreit," *Min Rec* 21, 5, 1990, p 399-403

1297. -----1743

Mvsei | Richteriani | Dactyliotheca | Gemmas Scalptas | Opere Antiqvo | Plerasqve Complexa | Interprete | Ioh. Frider. Christio

Colophon(p 34): "... Lipsiae | Excvdebat Bernh.Christoph.-Breitkopf | MDCCXXXXIII [Leipzig, 1743; below is a fine engrav tailpc]

2°: [18], 34 p; 3 engrav pls(XV-3VII) bound-in; engrav headpc, tailpc. 29.3 x 24.5 cm(15 1/2 x 9 5/8 in). Cropped. USGS Kunz Coll, GS 34-387(copy 41 1/2 cm tall).

Cont: tp; pref; text; colophon.

The U.S.Geological Survey Library catalogs this work separately, suggesting that it was issued as such although the informal title suggests otherwise. The plate numbers, however, were obviously engraved after the plates themselves, and this, along with separate pagination, supports the view that this work, originally meant to be issued independently, was appended to Hebenstreit, which see, and of which it is a usual part.

The preface discusses gem engraving, its objects and practicioners, and then describes, in parallel Latin and German columns, the 39 gems of the Richter Collection which are depicted upon the plates, and also other objects cut from precious stones and not shown upon the plates, ie, intaglios, cameos, in-the-round carvings in gemstones, pearls, metals, stones, and so on. Splendid engravings; chapter engravings by C F Boetius.

1298. -----1776

Johann Friderich Christ | ehemaligen öffentlichen Lehrers der Dichtkunst | auf der Universitat zu Leipzig | Abhandlungen | über die | Litteratur und Kunstwerke | vornemlich | des Alterthums | durchgesehen | und mit Anmerkungen begleitet | von | Johann Karl Zeune. | [woodcut vignette, a beehive] | [rule] | Leipzig | bey Ulrich Christian Saalbach, 1776.

8°: [16], 358, [14]p. 19.8 x 11.4 cm(7 3/4 x 4 1/2 in). USGS Kunz Coll, GS 33-282.

Contains 12 sections of various hranches of the arts with the 7th, p 263-98, being on engraved gems - general remarks on gemstones and their properties, esp those used in engraved gems, descriptions of same, types of engraving, using examples from Winckelmann's catalog of the Stosch collection. A number of gem inscriptions and signatures are reproduced. The essay ends with a brief list of standard works on the subject. J K Zeune(1736-1788).

CHRIST, J F, see HEBENSTREIT, J E; also LIPPERT, P D, 1755.

CHRISTIE, MANSON, AND WOODS, and SUCCESSORS

The following are selected auction catalogs which contain highly important collections of gems, precious stones, jewelry, etc, or which put up for auction some famous gems. Arranged chronologically.

1299. -----1861

Catalogue | Of The | Various Works of Art | Forming The | Collection | Of The Late | Matthew Uzielli, Esq. | Of Hanover Lodge, Regent's Park, London, | Which will be Sold by Auction, | By |... | At Their Great Rooms, | King Street, St.James's, | On Friday, the 12th of April, and Seven following Days, |... [4 lines] ... | London: | Printed By | Joseph Clayton, 17, Bouverie Street, Fleet Street. | [rule] | 1861.

8°: vii, [1 blank], 293, [3 blank]p; front engrav pl with paper guard, tip-in. Dk green cloth, gilt, dated 1860. Yellow endp. 24.1 x 15.2 cm(9 1/2 x 6 in). Cut. Aeg. JSL.

Cont: pl; tp; pref; tab cont; blank p; catalog; 3 blank p.

Engraved gems auctioned on 7 of the 8-days run; J.C.Robinson's catalog of the Uzielli Collection, which see, was used for preparation but subject matter rearranged to suit the auctioneers.

1300. -----1875 Catalogue of the Marlborough Gems being a collection of works in Cameo and Intaglio formed by George, Third Duke of Marlborough. June 28, 1875, 8°: 112 p, wraps, 739 lots. Not seen: from Sims, Reed & Fogg, London, Cat 60, Spring 1984, p 21. See entry below.

1301. -----1898 The Morrison Collection of Gems and Antiquities. Not seen.

1302. -----1899

Catalogue | Of | The Marlborough Gems, | Being A Collection Of | Works in Cameo and Intaglio, | Formed By | George, 3rd Duke Of Marlborough, | Purchased By The Late | David Bromilow, Esq ., | Of Bitteswell Hall, Lutterworth, | The Property Of Mrs. Jary: | Which | Will be Sold at Auction by |... [3 lines] ... | On Monday, June 26, 1899, | And Three Following Days, | ... [3 lines]... | and Catalogues (Catalogues, With Fourteen Illustrations, Price | One Guinea) had, at Messrs. Christie, Manson and Woods' | Offices, 8 King Street, St.James's Square, S.W.

8°: xix, [1 blank], 122, [2 blank]p; 42 fig on 14 tip-in photo pls. Pale gray paper bds, gold title on cover; floral endp. 26 x

16.5 cm (10 1/4 x 6 1/2 in). Uncut. Also in pink printed wrap, no ills, 1 s. USGS Kunz Coll; JSL.

Cont: tp; sale conditions; introd by M H Nevil Story-Maskelyne; catalog; blank f.

Handsomely illustrated 739 lots. The fairly long introduction by Story-Maskelyne is extracted from his *The Marlborough Gems*, which see, Some of the photographs depict gems among the 100 selected examples that appeared in the original edition of the Marlborough gems of 2 volumes.

1303. -----1909

Catalogue | Of The | Valuable And Important Collection | Of | Engraved Gems | Camei and Intagli | Comprising | Some of the finest examples of the Glyptic Art, with many | other interesting specimens of gem engraving of | all countries and times | And Including | Several of the Marlborough Gems, and others from most of the | principal early Collections and those dispersed of late years | Formed By | Charles Newton-Robinson, Esq. | Of 11 Chesterfield Street, Mayfair, W. | Which | Will be Sold by Auction by | Messrs. Christie, Manson & Woods |... [2 lines]... | On Tuesday, June 22, 1909 |... [5 lines]...

8°: 43, [1 blank]p; 7 photo pls in dk sepia. Edgesewn pale gray print wrap. 25.8 x 16.8 cm(10 1/8 x 6 5/8 in). Uncut. JSL.

"Many of the gems have been described and figured in the principal treatises... Gori, Bracci, Story-Maskelyne, King and Furtwängler... seventy of the Greek camei and intagli were shown at the Burlington Fine Arts Club's Greek Exhibition in 1903, and are figured and described in the Illustrated Catalogue 1904, from which the descriptions of these items have been abbreviated... illustrations of the Intagli are one-sixth above actual scale." Exquisite plates.

1304. -----1925

Catalogue | Of | An Important Collection | Of | Greek, Roman And Etruscan | Antiquities | And | Antique And Renaissance | Gems | The Property Of | Humphrey W.Cook, Esq. |... | Being a Portion of | the Celebrated Collection formed by the late | Sir Francis Cook, Bart. | Which | Will be Sold by Auction by | ... [6 lines] ... | On Tuesday, July 14, 1925 | And Two Following Days |... [5 lines]...

Edgestapled: 74, [2 blank]p; 11 "Rembrandt Photogravure" pls bound- in. Pale green paper bds, cover title. 25.3 x 18.5 cm(9 7/8 x 6 1/2 in). Uncut. JSL.

Handsomely illustrated, plates exceptionally clear; 466 lots of which 354 were intaglios and cameos, the remaining lots being jewelry, rings, some with engraved gems, bronzes, etc., and including the so-called "Rubens Vase," carved in brown agate. Many gems were acquired from famous collections: Orsini, Caylus, Colonna, Barberini, Castellani, Bessborough, Marlborough, Furtwängler, and a large number from Robinson(see above). Of the 11 pls, 4 depict engraved gems, one depicts the Rubens Vase. Sir Francis Cook(1817-1901) was a wealthy textile merchant and art patron; DNB.

1305. -----1927

Catalogue | Of | An Important Assemblage Of | Magnificent Jewellery | Mostly dating from the 18th Century | Which Formed Part Of | The Russian State Jewels | And which have been purchased by a Syndicate | in this Country | They are now Sold in order to close the | Partnership Account |... | Will be Sold by Auction by | ... [6 lines]... | On Wednesday, March 16, 1927 |... [5 lines]...

Edgesewn: 15, [1 blank]p; 10 photo pls on 10 glossy f bound-in. Pink print wrap. 24.8 x 15.4 cm(9 3/4 x 6 in). Cut. JSL.

Former Russian Crown Jewels, 124 lots, including the "Nuptial Crown." Referred to & quoted in part by Twining, *History of the Crown Jewels, etc.*

1306. -----1936

Catalogue | Of | The Collection Of | Egyptian, Greek & Roman | Antiquities | Cameos And Intaglios | Formed By The Late | Henry Oppenheimer, Esq., F.S.A. | Of 9 Kensington Palace Gardens, W.8 | Which |... | Will be Sold at Auction by | ... [6 lines]... | On Wednesday, July 22 | And | Thursday, July 23, 1936 |... [7 lines]...

8°: 68 p; 15 tip-in photo pls. Terra cotta paper bds, cover title; adverts on endpaper paste-downs. 24.5 x 15.6 cm(9 5/8 x 6 1/8 in). Cut. JSL.

Fine illustrations; mainly Egyptian antiquities, Greek vases & terra cottas; one pl depicts 6 engraved gems; jewelry, some set with engraved gems, in nos 152-69; intaglios 170-208; cameos 209-35; some engraved gems from Marlborough, Bessborough, collections, among others.

1307. -----1954

Catalogue | Of | Important Jewels | Including | The Jehangir Diamond - 17th Century | Weight 83 Carats | The Property Of | The Maharajadhiraja Bahadur Of Burdwan |... | Also | Jewels And Jewellery | From Other Sources | Which | Will Be Sold At Auction By |... [3 lines]... | On Wednesday, June 23, 1954 | ... [8 lines]...

Centerstapled: 24 p; front photo pls(2 views) of Jehangir. Pink print wrap. JSL.

The Jehangir, traditionally said to have been an ornament of the Moghul Peacock Throne, is a briolette of ca 83.05 carats and is one of the very few diamonds that also bears an inscription: "Jehangir 1021, son of Akbar, Son of Akbar, Shajehan, Shajehan," the year 1021 is the equivalent of 1602 AD.

1308. -----1963 Cseh Collection: The collection of important Chinese jades formed by Count von Cseh of New York City, London, 1963, 20 p, 18 pls, 1 colored folding, 24 x 18 cm, paper. Not seen: Han-Shan Tang, London, List 28, no 13.

1309. -----1969

Catalogue of | Magnificent Jewels | comprising | The Mancini Pearls | given by Louis XIV to Maria Mancini, | niece of Cardinal Mazarin |... [8 lines]. .. | Which Will Be Sold At Auction By | Christie(International) SA |... [3 lines]... | at the Hotel Richemond, Geneva |... | On Thursday, October 2nd, 1969 at 7 p.m. | ... [followed by two other titles in Fr & Ger]

Cementb: [2], 86 p; 32 pl(18 col) on 16 f; Pl 1, col, is front. Black wrap. 24.3 x 17.2 cm(9 1/2 x 6 3/4 in). Cut. JSL.

Includes fine oval faceted peridot of 139.85 carats(Lot 247); oval faceted yellow sapphire of 195.45 carats(Lot 246), and the Mancini pearls, a pair of closely-matched drops, in jeweled ear-drops, detachable, and weighing 400 grains; their history is given and they are shown on the colored frontispiece plate.

1310. -----1970

Catalogue | Of Chinese | Jades, Snuff-Bottles and | Hardstones |... [3 lines]... | which will be sold at Auction by | Christie, Manson & Woods |... [9 lines]... | On Monday, February 16, 1970 |... [7 lines]...

Edgestapled: 42, [2]p; 3 photo pls not includ in pag. Tan-yellow print wrap. 24.3 x 15.2 cm(9 5/8 x 6 in). Cut. JSL.

Lots 1-84, snuff-bottles of all types with many in stone; Lots 85-110 hardstone carvings, Lots 111-117 jades & miscellaneous stones.

1311. -----1970

Catalogue | Of | Fine Chinese Snuff-Bottles | ... [3 lines]... | also Chinese Carvings in Jade, Agate | and other Hardstones |... [4 lines]... | which will be sold at Auction by |... [10 lines]... | On Monday, April 20, 1970 | ... [6 lines]...

Edgestapled: front col pl(folding) + 44 p + 6 photo pls. Tan-yellow print wrap. 24.3 x 15.4 cm(9 1/2 x 6 in). Cut. JSL.

Lots 48-109 are snuff-bottles made from rock crystal, agate, jade and other materials, Lots 110-29 a collection of snuff-bottles made to order for their owner since 1949. Lots 130-92, jades, hardstones, several fine carnelians.

1312. -----1970

Catalogue of | Magnificent Jewels | comprising |...[10 linesl... .| The Royal Sapphire Of Burma | from the collection of the late Nizam of Hyderabad |... [7 lines]... | Which Will Be Sold At Auction By | Christie, Manson & Woods(International) SA | ... [3 lines] ... | at the Hotel Richemond, Geneva |... | On Thursday, November 19th 1970... [another title in Fr]

Cementb: fold f + 71, [1 blank]p + 47 pls(12 col) on 25 f(last f blank); Pl 1, fold, col, is front. Black print wrap. 24.3 x 17.2 cm(9 1/2 x 6 3/4 in). Cut. JSL.

Many fine jewels & gems but the principal lot was a beautiful blue carved sapphire of 375 carats, "of elongated shape and lively blue... engraved on one side with a series of petals suggesting a lotus bud, on the other with three concentric circles of lotus, suggestive of a Buddhist emblem, " Lot 314, col pl 44. Another unusual lot: a parure of sardonyx cameos executed by Nicola Morelli(1779-1838) and signed, Lot 257, b&w pl 24. The sapphire sold for SFr 310,000; the cameo parure for SFr 14,000.

1313. -----1971

Chinese Snuff-Bottles | and | Small Hardstone | Carvings |... [3 lines] ... | which will be sold at Auction by | Christie, Manson & Woods |... [9 lines]...| On Monday, April 5, 1971 |... [7 lines] ...

Edgestapled: 72 p; 3 photo pls on 2 glossy f. Yellow-tan print wrap. 24.1 x 15.3 cm(9 1/2 x 6 in). Cut. JSL.

All types, 395 lots, including jade and other stones.

1314. -----1971-1972

The Ko Family Collection | of | Chinese Snuff-bottles | All collected in China between 1920 and 1943. | It can be seen from their quality that great | discrimination was shown in their selection | which will be sold at Auction by |...[11 lines] ...| On Monday, June 14, 1971 |... [6 lines]... [first of 2 catalogues, described separately;]

Edgestapled: col pl + 68, [2 blank]p; 2 other col pls, 190 b&w photos in text. Pale yellow print wrap. 24.1 x 18.3 cm(9 1/2 x 7 1/4 in). Cut. JSL.

Part 2, 1972:

The Ko Family Collection |... [2 lines] ... | Part II |... | On Monday, June 12, 1972 |...

Edgestapled: col pl + 68, [2 blank]p, another col pl, 156 b&w photos.

Catalogued:190 & 189 lots; about half are hardstones as jades, quartzes, lapis, malachite, etc, also several coral, ivory, amber and other organic materials, but largely the non-mineral materials dominate.

1315. -----1971

Chinese Snuff-bottles | and Hardstone Carvings |... [4 lines]...| which will be sold at Auction by |... [11 lines]...|On Monday, November 15, 1971 |... [7 lines]...

Edgestapled: 38, [2 blank]p; 3 photos on 2 glossy f. 24.2 x 15.5 cm (9 1/2 x 6 1/8 in). Cut. JSL.

Porcelain, ivory, hornbill, but primarily hardstone bottles; also carvings lots 175-88.

1316. -----1971

Magnificent Jewels |... [7 lines]...| A Fine Emerald, Diamond And Pearl Pendant, | Known As The "Stuart Emerald" | The Barberini Sapphire And Diamond Jewels |... [3 lines] ... | Which Will Be Sold At Auction By | Christie, Manson & Woods(International) SA | ... [5 lines]...|On Thursday, November 18th 1971 at 15 h. |...[4 lines]... [another Fr title]

Cementb: [2 blank], 62, [1]p; 55 pls(31 col, 2 fold) on 28 f. Black print wrap. 24.3 x 17.2 cm(9 1/2 x 6 3/4 in). Cut. JSL.

Lot 138, col pl 39, is the emerald/diamond/pearl pendant-brooch in possession of the Royal House of Savoy since 1807 and variously known as the "English Emerald" or the "Stuart Emerald." A full history is given. The Barberini jewels of blue sapphires and diamonds formed Lot 139, col pl 40; also furnished with a history.

1317. -----1972

Chinese Snuff-bottles | and small | Hardstone Carvings |...[3 lines] ...| which will be sold at Auction by | Christie, Manson & Woods | ... [10 lines]... | On Monday, January 31, 1972 |... [7 lines]...

Edgestapled: 47, [1 blank]p; 3 photo pls on 3 glossy f not in pag. Yellow print wrap. 24.2 x 15 cm(9 1/2 x 5 7/8 in). Cut. JSL.

1318. -----1972

Chinese Snuff-bottles | and | Hardstone Carvings | ... [5 lines] ...| which will be sold at Auction by |.. .[11 lines]...|On Monday, May 8, 1972 |... [7 lines]...

Edgestapled: 39, [3 blank]p, 4 photos on 2 glossy f not in pag. Yellow print "wrap. 24.2 x 15.3 cm(9 1/2 x 6 in). Cut. JSL.

Lots 166-94 are carvings in various materials with the previous portion snuff-bottles in hardstones, glass, etc.

1319. -----1972

Chinese | Snuff-bottles | and Small Hardstone Carvings |... [3 lines] ...| which will be sold at Auction by |...[11 lines]...|On Monday, July 3, 1972 | ...[7 lines|...

Centerstapled: 50, [2 blank]p; 2 photos on 2 glossy f. Yellow print wrap. 24.1 x 15.2 cm(9 1/2 x 6 in). Cut. JSL.

Lots 1-238 snuff-bottles in a variety of materials; remainder of 249 lots are hardstone carvings.

1320. -----1973

Magnificent Jewels | Rare Indian Jewels | the properties of Princely Houses | Russian Objects Of Art | Fabergés | From various owners | Which Will Be Sold At Auction By | Christie's (International) S.A. |... [3 lines]... | at the Hotel Richemond, Geneva |... | On Wednesday May 9th 1973 | ... [6 lines]... [another title in Fr]

8°: 107 p + [1]p bearing Pl 1 + Pls 2-104(37 col) on 53 f, the last p of the last f is blank + a tip-in f of "additional lots" (448-448d); several pls folded. Black print wrap. 24 x 17.2 cm(9 1/2 x 6 3/4 in). Cut.

Notable for a considerable number of Indian jewels, many illustrated, among many others of much value.

1321. -----1973-1974

Un' | Importante | Collezione Privata di Giade | Pietre dure | Avori Orientali | Parte | I [-II] | Che Saranno Venduti All'Incanto Da | Christie, Manson & Wood, (International) S.A. | 00187 Roma, via Margutta 54 |...| con la collaborazione e presso la sede della | Cassa Di Risparmio Di Roma |... [3 lines] ...|Martedi 13 Novembre 1973 |... [4 lines] ...| Catalogo illustrato (22 tavole) prezzo 2000 lire | [rule] |...[2 lines ... [2 volumes; another title in English]

8°: 76 p; 22 pls bound-in & tip-in. Yellow print wrap; 24 x 13.5 cm (9 1/2 x 7 1/4 in). Cut. JSL.

Chinese carvings in bowenite, rose quartz, fluorite, soapstone, ivory, amethyst, agate, amber, lapis lazuli, turquoise, coral, and jade(nos 143-229).

Parte II, 1974.

Un' | Importante | Collezione Privata di Giade |... [8 lines]...| Le Crand Hotel |... [3 lines]...| Lunedi 20 Maggio 1974 |... [7 lines] ... [another title in English]

8°: 71, [1 blank]p; 19 pls bound-in & tip-in. JSL.

Ivory, soapstone, quartz, malachite, tiger's-eye, agate, chloromelanite, bowenite, jade (nos 146-205).

1322. -----1973

Important Fabergés |... [4 lines] ...| including: | The Imperial Cuckoo Egg by Fabergé | The Figures of a Gipsy Woman by Fabergé | A seated Gorilla in Agate by Fabergé |...[12 lines...| Which Will Be Sold At Auction By | Christie's (International) S.A. |...[3 lines]...| At The Hotel Richemond |...| On Tuesday November 20th 1973 at 3.00 p.m.|...[5 lines]...

8°: [8], 68 p; 48 pls(12 col) on 25 f(one fold). White print wrap. 24 x 18.5 cm(9 1/2 x 7 3/8 in). Cut. JSL.

Includes the large Imperial Russian Easter Egg Clock, known as the Cuckoo Egg, Lot 355, the famous gipsy singer Vara Panina, Lot 354, noted for its skilled joining of different stones various colors and textures in one carving, and also the gorilla figurine, a malachite veneer clock, a number of typical small animals by Fabergé, and others.

1323. -----1973

Magnificent Jewels | Including |...| The Red-Cross Diamond |... [5 lines]...| The Flame Queen Opal |...[4 lines]...| Which Will Be Sold At Auction By |... [6 lines]...| On Wednesday November 2lst 1973 |... [7 lines] ... [another title in French]

8°: 120 p; 100 pls(34 col, one fold) on 51 f. Black print wrap. 24.3 x 17.2 cm(9 1/2 x 6 3/4 in). Cut. JSL.

Many splendid diamond and other precious stone jewels are included in this important catalog but the principal lots are the Red Cross diamond, Lot 772, illustrated in color, a cushion brilliant, fancy-yellow, of 205.07 carats, the name given to it because of the Maltese cross pattern of the pavilion facets, and the famous Flame Queen opal, Lot 747, also shown in color, with references & brief history. The Flame Oueen has been illustrated in the color frontispiece to Kozminsky's *The Magic and Science of Jewels and Stones*, which see. For an earlier sale, see Parke-Bernet Galleries, Inc., Sale number 2833, Thursday, April 10, 1969.

1324. -----1974

Highly important Works of Art | by Carl Fabergé |...13 lines]...| Which Will Be Sold At Auction By |...[6 lines]...| On Wednesday, May 1, 1974 at 3.00 pm and 8.00 pm precisely |...[5 lines]... [another Fr title]

8°: [8], 80 p; 11 col pls on 6 f; 51 b&w pls on 26 f. White print wrap. 24 x 18.2 cm(9 1/2 x 7 1/4 in). Cut. JSL.

Splendid selection of Fabergé pieces: Siberian nephrite carvings, frames, dishes; hardstone carvings; outstanding rock crystal glass-type vessel in which is plunged a gold lily of the valley with flowers formed of miniature jeweled eggs; fine agate carving of Catherine the Great, total height 16.75 cm; exceptional nephrite tray with elaborate jewelled endpieces.

1325. -----1974

Magnificent Jewels | including | The Historical 'Star of South Africa' Diamond |... [18 lines] ...| Which Will Be Sold At Auction By |... [6 lines] ...| On Thursday May 2nd 1974 |... [8 lines]... [another title in Fr]

8°: 104p; 98 pls(32 col, 2 fold) on 51 f(last f blank). Black print wrap. 24.3 x 17.2 cm(9 1/2 x 6 3/4 in). Cut. JSL.

Principal object: the Star of South Africa, a pear-shape of 47.69 carats set in a pendant; one of the earliest of the large diamonds to be found in South Africa; brief history & biblio p 99, in color on Pl 93; sale price SFr 1,600,000.

1326. -----1976

Chinese Jades, Snuff-bottles | and other Hardstone Carvings |... [5 lines]...| which will be sold at Auction by | Christie, Manson & Woods Ltd. |... [9 lines]...| at their Great Rooms | 8 King Street, St.James's, London, SWlY 6QT |...| On Monday, January 26, 1976 |...[6 lines]...

Edgestapled: 33, [1], [2 blank]p; 44 photos on 14 f. Yellow print wrap. 24.2 x 15.2 cm(9 1/2 x 6 in). Cut. JSL.

Lots 1-94, snuff-bottles in various materials and employing various techniques; remainder carvings, containers, statuettes, animal figures, etc, many large and fine, in jade, rock crystal, bowenite, rose quartz, amethyst, aventurine.

1327. -----1977

Chinese Jades, Snuff bottles | and other | Hardstone Carvings | ... [3 lines]...| which will be sold at Auction by | Christie, Manson & Woods Ltd. |...[9 lines]...| at their Great Rooms | 8 King Street, St.James's, London, SW1Y 6QT |...| On Monday, February 7, 1977 |... [7 lines]...

Edgestapled: 43, [1]p; 3 col photos on 2 pls; 43 b&w photos on 15 pls. Yellow print wrap. 23.3 x 17.5 cm(9 1/4 x 6 7/8 in). Cut. JSL.

Notable for large and important jades as well as a number of archaic pieces and richly-colored imperial jadeite small carvings(col pl); the front col pl depicts two green nephrite vessels.

1328. -----1977

Magnificent Jewels |...[15 lines]...| Which will be sold at Auction by | Christie's (International) S.A. |...[3 lines]...| At The Hotel Richemond, Geneva |...| On Thursday, April 28, 1977 |... [9 lines]...

8°: 70, [2 blank]p; 95 pls(26 col) on 48 f. Black print wrap. 24.1 x 18.3 cm(9 1/2 x 7 1/4 in). Cut. JSL.

Large variety important jewels and gems; unusual lot 75, pls 2, 3, being a suite of jewels set with malachite cameos, exquisitely engraved, and comprising a necklace, bracelets, ear-pendants, brooch, and ear-clips; some cameos inscribed "Fioppi" and thought to be Italian work, ca 1830.

1329. -----1977

Fine Objects of Vertu | Miniatures, Antique Jewels, | Gold, Enamel and Hardstone Boxes, | Seals and Necessaires, |...[2 lines]...| Which will be sold at Auction by |...[4 lines] ...| on Tuesday, November 8, 1977 |... [2 lines]...

Cementb: 57 p, 45 pls(8 col). White print wrap. 24 x 18.7 cm(9 1/2 x 7 1/4 in). Cut. JSL.

Especially interesting: a number of cameos set in jewels; remarkable malachite plaque, Lot 131, 10.5 cm tall, 19th c; many seal stamps in rock crystal and other gemstones; carved ivories; fine boxes employing gemstones in part.

1330. -----1978

Chinese Jades and other | Hardstone Carvings |... [5 lines]... | which will be sold at Auction by | Christie, Manson & Wood Ltd. |... [9 lines]... | at their Great Rooms | 8 King Street, St.James's, London, SWlY 6QT | ... | On Monday, February 13, 1978 |... [7 lines]...

Edgestapled: 33, [4], [1 blank]p; 2 col photos on 2 glossy f(one is front); 63 b&w photos on 17 glossy f. Yellow print wrap. 24.2 x 18.3 cm (9 1/2 x 7 1/4 in). Cut. JSL.

Superb "Hand of Buddha" white nephrite carving, frontispiece pl in color; belt buckles and small pendants in imperial jadeite, also in color; many other carvings.

1331. -----1978

Magnificent Jewels | from various sources | Which will be sold at Auction by | Christie's (International) S.A. |...[4 lines]...| At The Hotel Richemond, Geneva |...| On Thursday, April 27, 1978 |... [9 lines] [also a Fr title]

8°: 83, [1 blank]p + pls tp(Pl 1 on reverse); 98 pls(43 col) on 50 f + blank f. Black print wrap; col photo on cover. 24 x 18.5 cm(9 1/2 x 7 1/4 in). Cut. JSL.

Many important pieces set with diamonds, pearls, rubies, sapphires and emeralds; also single gems, many rings, antique jewels, and parure of cameo malachites.

1332. -----1978

Magnificent Jewels | from various sources | Which will sold at Auction by |... [7 lines]...|Wednesday, November 15, 1978 |... [10 lines]... [also a Fr title]

8°: 119,[1 blank]p; 130 pls(36 col) on 66 f. Black print wrap, col photo on cover. 24 x 18.5 cm(9 1/2 x 7 1/4 in). Cut. JSL.

Fine jewels, mainly diamonds, rubies, sapphires, pearl, emeralds; outstanding yellow sapphire necklace, Lot 537; also Art Nouveau and Art Deco items.

1333. -----1979

Magnificent Jewels | from various sources | Which will be sold at Auction by |... [7 lines] ...| Wednesday, November 21, 1979 |...[11 lines]...

8°: 122,[2 blank]p; 135 pls(44 col, 2 fold) on 70 f. Black print wrap, col photo on cover. 24 x 18.5 cm(9 1/2 x 7 1/4 in). Cut. JSL.

Major gemstone pieces; several splendid diamond suites on folding pls 107-8; the famous emerald cameo of Grand Duke Ferdinand IV of Tuscany, Lot 605, pl 125, 3.5 cm tall, 130.49 carats, signed by Salmson and with a brief history of the engraver and the gem; it fetched SFr 200,000.

1334. -----1980

Important Jewels |... [10 lines]...| which will be sold on | Wednesday, June 11, l980 | (Lots 1-165) | Thursday, June 12, 1980 | (Lots 166-305) | ...[4 lines]...| Christie, Manson & Woods International Inc. | 502 Park Avenue · New York, N.Y. 10022 |...

Cementb: 105, [7]p; 97 photos(41 col). Pale gray print wrap, pink bands, col photo on front. 25.5 x 19.8 cm(10 x 7 3/4 in). Cut. JSL.

Among the many fine jewels a remarkable serpent brooch set with emeralds, sapphires and diamonds, the jaws seizing a splendid greenish cat's-eye chrysoberyl cabochon of circular form weighing 172.80 carats, Lot 237, which sold for $115,000. Also outstanding, a suite of aquamarine-set jewels comprising two rings, a bracelet, and a pin, the bracelet set with a very large central gem of 84.68 carats; all gems step-cut and all intense blue rivaling fine sapphires; the bracelet fetched $41,000, the brooch $6800, and the rings $6800 and $6000.

1335. -----1981

Magnificent | Jewels | from various sources | which will be sold at auction by |...[many lines]...|Wednesday, May 13, 1981 |...| Thursday, May 14, 1981 |... [9 lines]...

Cementb: 113, [1 blank]p; Pls 1-66 on 33 f + 1 blank f + Pls 66a- 140, in color, on 38 f + 1 f adverts. Black satin cloth, gold cover title & gold frame surrounding a rect color plate of a ruby pin; gold spine title & logo; logo back cover. 24.3 x 18.3 cm(9 1/2 x 7 1/4 in). Cut. Glossy paper throughout. JSL.

Cont: tp; sales cond & info; Fr title; sales cond & info; catalog; blank p; b&w pls; blank f; color pls; advert; with two loose inserts, "Diamonds with Certificates, and "Estimates."

All classes of modern jewelry in 621 lots, including Art Nouveau and bibelots. Lot 593, col pl 128, is a "historical pearl and diamond tiara... owned by Duchess Militza von Mecklenburg-Strelitz, who married Danilo Crown Prince of Montenegro in 1899." Lot 597, the Ashberg diamond, in color on pl 130, "a light fancy yellow cushion-shaped diamond of 102.48 cts. mounted as a pendant within circular-cut diamonds... said to have been part of the Russian Crown Jewels. In 1934 it was sold to Mr.Ashberg, a Stockholm banker, by the Russian Trade Delegation, hence its name." In 1971 it was listed as the 38th largest polished diamond; 4 refs cited.

1336. -----1984

The Magnificent Jewels of | Florence J.Gould | Wednesday, April 11, 1984 |...[Christie, Manson & Woods International Inc., New York.]

8°: 65, [7]p; 7 col photos. Maroon unfin moire silk; gilt spine & cover titles; maroon silk marker. 24.8 x 19.6 cm(9 3/4 x 7 3/4 in). Cut. JSL.

Contains a portrait and brief biography of F J Gould(1895-1983). Notable items: Lot 487, diamond-sapphire necklace with pendant sapphire, "The Blue Princess," ca 114.30 carats, and Lot 482, a ring set with the "Victory diamond" of 31.35 carats and one of thirty gems cut from the 770-carats Woyie River diamond from Sierra Leone.

CHRISTIN, C G F, see BION, J M

1337. CHRITEN, TH

Traité Scientifique | De | L'Art Du Lapidaire | Contenant | La théorie et la pratique de cet art; les connaissances | chimiques et minéralogiques nécessaires aux lapidaires; | la taille de chaque pierre précieuse y compris celle de | quelques autres fossiles gemmes; la connaissance et la | taille de la pierre fausse; le sciage, le perçage, les travaux | du tour et du touret; | Avec Planches, Dessins, Ustensiles Et Outils | Relatifs A cet Art. | Par | Th.Chriten | Lapidaire finetier, Chimiste pour la haute verrerie (imitation des pierres | fines), les masses, les émaux; | Auteur des émaux du tombeau de l'Empereur Napoléon Ier aux Invalides, | d'un Manuel inédit sur la fabrication de la poterie réfractaire | en général pour Les Arts et Sciences; | Admis aux Expositions de 1844, 1855 et 1867. | [orn rule] | Paris | Chez L'Auteur, Rue De Lourmel, 20, A Grenelle | Et Chez Les Principaux Libraires | [rule] | Tous droits réserves. [1868, this date appearing on wrap only]

12°: 491, [1 blank]p; 12 litho pls on 6 double-f tip-ins at end. Pale tan wrap, title in orn frame on cover. 18.7 x 11.7 cm(7 3/8 x 4 5/8 in). Uncut. JSL; USGS GS 34-206.

Cont: tp; publ data; dedic; introd; text in 2 parts; appends; tab cont; blank p; pls. Biblio, p 474, 28 entries.

One of the very few early works in any language which honestly attempts to describe in useful detail the "secrets" of the lapidary arts and therefore provides an encyclopedic reference on the state of the art as then practised but marred by poor organization. The first and by far largest part discusses the art with brief descriptions of cutting styles, techniques, tools, equipment and raw materials, followed by brief articles on a large number of species and varieties of gemstones. Inexplicably, this is followed by a resumption of technical lapidary matters as the making of mosaics, incrusted work, polarization of light, value and durability of gemstones, cleavage, sawing, piercing, and so on, lending the impression that the author went to press with a series of notes and made no serious attempt to logically organize them. The second part is also an ill-assorted series of short articles on glass pastes, cutting imitation gems, more lapidary methods, nature of polishing agents, and a brief discussion of the enamels which the author executed for the adornment of Napoleon's tomb in the Invalides, Paris. Appendices include notes on the Paris Exposition of 1867, a brief and wholly inadequate bibliography, a list of active lapidaries of Paris, geometry(mainly as applied to crystallography!), and a glossary of technical terms. The plates are line drawings; gem cuts, famous gems, obiects made by the author, and various lapidary machinery & accessories. There is much of value in this work: practical advice on gem cutting, current sources of rough, and sometimes just how a specific gemstone must be cut and polished. Rare.

CHU, ARTHUR & CHU, GRACE

A Chu b China; educ Nat Central U; G Chu earned PhD U Calif Berkeley; both are dealers in oriental art and authors of two other works on oriental antiques and cloisonne.

1338. -----1978

The Collector's | Book of Jade | by Arthur and Grace Chu | [rule] | [photo of jade plaque] | Crown Publishers, Inc., New York [1978]

16°: xvi, 144 p; 203 figs(mainly photos); 3 unnumb photos; 20 col photos on 4 glossy f bound-in. Light blue-green paper over bds; dk blue-green unfin cloth spine, gilt; green dj, col photos, resume,vitas, etc. 25.2 x 17.6 cm(9 7/8 x 7 in). Cut. $10.95. LC 78-16762; ISBN 0-517-53150-X. JSL.

Cont: 1/2tp; other author bks; tp; publ data; tab cont; tribute; ackn; introd; 15 chs in 2 parts; appends; index. Biblio p 139-41, 27 entries.

Diversified, interesting, easily assimilable information, and even lapsing into colloquial language at times. The authors pay tribute to carver Chingwah Lee, many of whose jades are illustrated for the first time in this book. First part: history & lore, with many stories about jade's peculiar fascination for the Chinese, the sacking of the Summer Palace in Peking in the Boxer Rebellion and removal of jades, a large chapter on "small" jades, that is buttons, pendants, fingering pieces, snuff bottles and the like, and forming a most valuable contribution inasmuch as such minor objects receive short shrift in other jade books. The second part is on scientific aspects of the jades, properties, carving techniques, substitutes & imitations, dyed jades, sources, simple lapidary work that the reader can do, dating of jades, archaic jade forms, pricing, and a brief but not very good bibliography. The photos are mostly good but others are poor in respect to delineating texture of objects. Comment Born, p 98-9; rev *J Gemm*, 18, 4, 1982, 353.

1339. -----1982, Ger edit

Arthur und Grace Chu | Jade- | Stein des Himmels | Werkstoff für Künstler- | Objekt für Kenner | Ein Buch für Sammler | und Liebhaber | [logo] | Kosmos · Gesellschaft der Naturfreunde | Franckh'sche Verlagshandlung · Stuttgart [1982; title in white on green page]

"Aus dem Englischen übersetzt von Claudia Huber und Bernhard Abend."

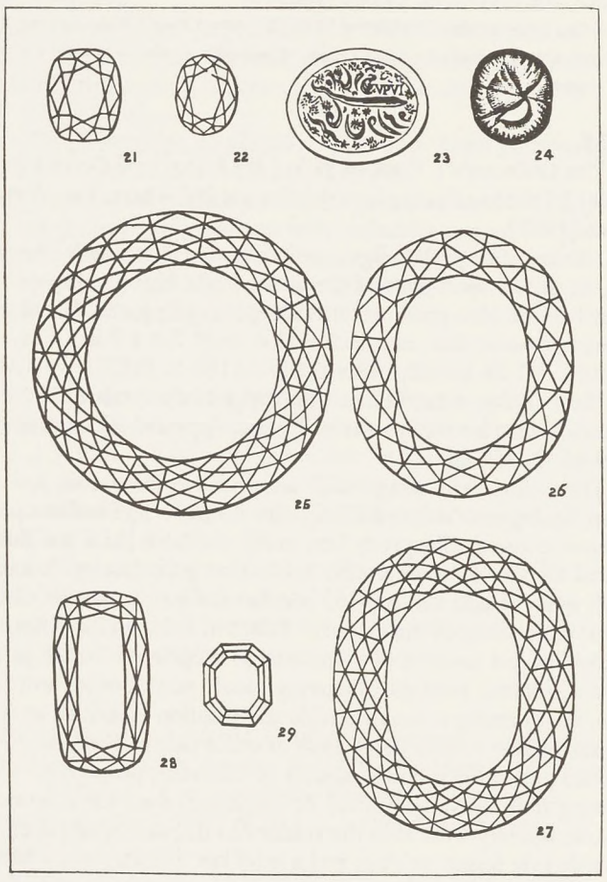
8°: 151, [l]p; 282 figs(35 line drawings, chart, 29 col photos, the remainder b&w photos); the color photos bled but others within wide green frames & inner white frames. Color photo & silver paper over bds; resume back cover. Jade carving col photo endp. 24.5 x 17 cm(9 5/8 x 6 3/4 in). Cut. Ca DM 48.- ISBN 3-440-05074-2. JSL.

Cont: 1/2tp; col front; tp; publ data; tab cont; tribute; ackn; introd; 17 Chs; jade in Germany; biblio; index; advert.

Excellent translation; some illustrations rearranged; very attractive redesign; additional ch on pricing(formerly in appendix); new section on Jade in Germany written by Abend with information on museums displaying jades.

CHUDOBA, KARL FRANZ JOHANN(1898-1976)

Ger mineralogist; B Writzow; asst in Mus Nat Hist, U of Vienna; U Friburg-am-Breisgau; prof U Bonn. Obit, *Der Aufschluss*, 27, 1976, p 121-4, 3 ills.



1352. A plate showing gems from the Townshend Collection in Victoria & Albert Museum, London, from Church's extremely popular handbook

1340. -----1939

Bezeichnungsübersicht | und Bestimmung | der Schmucksteine | von | Prof.Dr. Karl F.Chudoba, Bonn | [logo] | Verlag Wilhelm Diebener, Leipzig [1939]

"Sonderdruck aus dem Deutschen Goldschmiede-Kalendar 1939"

8°: 35, [1 blank]p; 3 fold f tip-ins at end of text. Tan print wrap. 21 x 15 cm(8 1/4 x 5 7/8 in). Cut. JSL.

Compiles data on gemstones to aid in their identification - extended list of names, varietal & superfluous, false & misleading, significant physical properties, series of identification tables matching color against density and hardness, density against refractive index, and other combinations of properties.

1341. -----1942

Deutsche Schmuck- und Edelsteine | in der deutschen Goldschmiedekunst | von | Prof.Dr.Karl.F.Chudoba | Mitglied des NSD.-Dozentenbundes | [logo] | Bonn 1942 | [rule] | Bonner Universitäts-Buchdruckerei Gebr. Scheur, G.m.b.H., Abteilung Verlag

At head of title: "Kriegsvortrage | der Rheinischen Friedrich-Wilhelms- Universität Bonn a.Rh. | Herausgeber: Gaudozentführer u. dzt. Rektor Prof. Dr.Karl F.Chudoba | [rule] | Heft 84 | Aus der Vortragsreihe: |:Kunst und Wissenschaft"

Centerstapled: 31,[1 blank]p; 2 photos on 1 pl tip-in at end; 8 figs(7 sketch maps). Pale blue print wrap. 20.8 x 15 cm(8 1/8 x 5 7/8 in). Cut. 75 Rpf. JSL.

Brief accounts of gemstones of possible economic interest in Germany, Czechoslovakia and Austria which could be used in the domestic jewelry industry in lieu of imports during World War II; deposits of crystalline and cryptocrystalline quartzes, topaz, chrysoprase, nephrite, emerald, pyrope, amber, and synthetics.

1342. -----1952 Zur Farbe und Farbursache der Schmuck= und Edelsteine. *Der Aufschluss*, 3, 8, 1952, p 119-22; 9, 138-40; 10, 150-3; 11, 168-70.

1343. -----1957 Zur allochromatischen Färbung von Mineralien durch Chrom. *N Jb Min*, Abhandl, 91, 1957, p 11-34; Festband Hans Schneiderhöhn. Role of the Cr ion in coloring of minerals; bichromatic nature; green zircon; long list of minerals colored by Cr with formula, content, color, etc. 26 refs.

1344. -----1961 Zur Deutung der Amethystfarbe. *Der Aufschluss*, 12, 9, 1961, p 233-48, 5 ill, 4 tab, 15 ref.

1345. -----1969 Über die Bedeutung, Entstehung und Klassifikation der Mineral-, insbesondere der Edelsteinfarben im geschichtlichen Rückblick. *Deutsche Ges f Edelsteinkunde Sonderheft* 3: Festschrift zum 75.Geburtstag von Georg O.Wild, Idar-Oberstein, 1969, p 27-40, diagram. Historical review of significance, origin, and classification of mineral colors, esp those of gemstones; liberally cites older literature(55 references) to show increasing appreciation of true nature of color in minerals.

CHUDOBA, K F, FESTSCHRIFT, see AUFSCHLUSS, DER, 1968; also see LIEBER,W, 1970.

1346. CHUDOBA, KARL FRANZ & GÜBELIN, E

Prof.Dr.Chudoba - Dr.Gübelin CG, FGA. | Schmuck- Und | Edelsteinkundliches | Taschenbuch | Mit 150 Abbildungen, 27 Tabellen und 2 Mehrfarbentafeln | 1953 | Verlag Bonner Universitäts-Buchdruckerei | Gebr, Scheur G.M.B.H.

8°: XII, [1], [1 blank], 158 p + 2 fold tabs tip-in + [9]p adverts + [3 blank]p; advert f sewn-in except last 2 f tip-ins. Centerstapled "Anhang" pamphlet of 24 p inserted under a cloth loop cemented inside back cover. Col front pl tip-in with lett tissue overlay; another tip-in at p 2; 17 text figs(last fig missnumb); 124 figs in appendix; 27 tabs. Pale blue unfin cloth, gold lett spine & cover. Thin, flexible bds. Blue dj, resume, advert. 21 x 13.9 cm(8 1/4 x 5 1/2 in). Cut. DM 19.60. LC 53-24249. JSL.

Cont: 1/2tp; pl; tp; publ data; tab cont; biblio(p VIII, 18 entries); abbrev; fwd; blank f; introd; col pl; 10 chs; ident tabs; 2 fold tabs; advert; 3 blank p; appendix in back cover.

Based on Chudoba's compilation of 1939(see above) but now far larger and more comprehensive, compiling in convenient reference form virtually all of the nomenclature and properties of gemstones as then known and with occurrences of gemstones, cutting styles, synthetics, imitations, etc. Gübelin's contributions evident in the large and important sections on inclusions in Ch 4 and the numerous photographs in the appendix. Two Walter Wild watercolor plates as in the 1939 edition. Extended reviews:

N Jb Min, Monatshefte, Jg 1953, F 143; B.W.Anderson, *The Gemm*, 22, 260, 1953, p 54-6; *J Gemm*, 4, 2, 1953, p 80-1; *G & G*, 7, 11, 1953, p 350-1.

1347. -----1966, 2nd edit

Prof.Dr.Chudoba · Dr.Gübelin CG, FGA. | Edelsteinkundliches | Handbuch | Mit 205 Abbildungen, davon 62 im Text, 143 im Anhang, | 30 Tabellen und 4 Mehrfarbentafeln | [logo] | 2.Auflage | Wilhelm Stollfuss Verlag Bonn [1966]

8°: 277, [1], [2 blank], [4 advert]p; 62 fig; 4 col pls on 3 glossy f tip-ins; fold map tip-in; fold tab tip-in; "Anhang" 32 p, 143 photos in diagonal cloth pocket inside back cover. Pale blue-gray unfin cloth, gilt; pale blue & black dj, resume. 20.9 x 14 cm(8 1/4 x 5 1/2 in). Cut. DM 36. JSL.

Cont: 1/2tp; tp; publ data; tab cont; introd; biblio(p 12, 19 entries); abbrev; introd; text; index; notes space; blank f; advert; appendix.

Much revised, considerable material added; adds 2 col pls of spectra. Inclusion photos expanded by 10 photos, better quality. Rev *Der Aufschluss*, 18, 7/8, 1967, p 243-4.

1348. -----1974, 3rd edit

Prof.Dr.Chudoba · Dr.Gübelin C.G., F.G.A. |...| Mit 215 Abbildungen, davon 72 im Text, 143 im Anhang, | 30 Tabellen und 4 Mehrfarbentafeln |... | 3.Auflage | Wilhelm Stollfuss Verlag Bonn [1974]

8°: 409, [2 advert], [1 blank]p; 72 fig; 4 col pls, etc. as before. Black cloth, gilt; red & black dj, resume. P size same. DM 65. JSL.

Cont: 1/2tp; dedic; tp; publ data; tab cont; fwds; biblio(p 14, 22 entries); abbrev; introd; text; index; notes space; adverts; blank p; appendix pamphlet.

Much enlarged, revised, additions to dictionary and important new material to synthetics. Rev *J Gemm*, 14, 5, 1975, p 236-7; A Pabst, *Mineralogical Record*, 7,2,1976, p 87.

END OF HANDBUCH SERIES

1349. ----1956

Prof.Dr.Chudoba - Dr.Gübelin CG., FGA. | Echt | Oder | Synthetisch? | Grundlagen und Methoden zur Unterscheidung natürlicher | Edelsteine von synthetischen Steinen | Mit 117 Abbildungen | 11 Tabellen und 1 Mehrtarbentafel | 1956 | [taper rulel | Rühle-Diebener-Verlag KG Stuttgart

8°: 156 p + 2 glossy advert f tip-in at end; col glossy front pl with tissue printed overlay; 117 fig; 11 tabs. Tan-yellow cloth, black lett. Blue & white dj. Inside front cover with adverts. 20.8 x 14.7 cm(8 1/8 x 5 3/4 in). Cut. DM 18.50. JSL.

Cont: pl; tp; publ data; tab cont; fwd; hist of synthetics; text; conclusion; biblio(p 151, 12 entries); index; advert.

Succinct monograph on distinctions between natural & synthetic gemstones: history of synthetics, brief descriptions of same, how made, then the special features which make it possible to distinguish the stones in question by detection of growth marks, inclusions, luminescence, absorption spectra, UV, filter colors, etc. Many inclusion photos; front pl a fine watercolor by Walter Wild showing synthetic boules and rods and an emerald crystal. Rev *Der Aufschluss*, 7, 9/10, 1956, p 204-5; *J Gemm*, 5, 7, 1956, 381-2; *The Gemm*, 25, 300, 1956, 125-6.

1350. CHUDOBA, KARL FRANZ & STACKELBERG, M von Dichte und Struktur des Zirkons. *Zs Krist*, Abt A, 95, 1936, p 230-46, 12 fig, 3 tab. Also separate in gray print wrap.JSL. Density vs crystal structure of zircons from various deposits; review of lit(biblio p 246, 14 entries); considers optical properties, x-ray results, heat treatment; zircons placed in three classes according to density/optical properties.

1351. CHUPIN, P Poiski tsvetnykh kamnei v Zairtyshskoi stepi v kontse proshlogo stoletiya. *Zapiski Zapadno-Sibirskogo Otdela Russkogo Geograficheskago Obshchestva*, 16, pt 2-3, 1893, st 5, p 1-18. On the researches of precious stones in the Zairtyschky Steppe at the end of the last century. Not seen.

CHURCH, ARTHUR HERBERT (1834-1915)

Brit chemist; educ Brighton; to Royal School of Chem at age 17; early years spent as artist(a painting hung in Roy Acad); honors grad Oxford U; opened lab in London as consult chem & tutor; apptd prof chem Roy Agric Coll 1863-79; disc absorption bands in zircon and almandine 1866; prof chem Roy Acad Arts 1879; pres Min Soc Gt Brit 1898. Pogg 3, 272, 4, 249; obit *Min Mag*, 17, 82, 1916, p 363-4; biogr note B.W.Anderson, *The Gemm*, 13, 152, 1944, p 33-5, portr. Reverend Chauncy Hare Townshend b 1798; educ Eton & Cambridge U; poor health forced resignation from church; devoted life to collecting, and writing poetry; his will of Aug 1863 named Charles Dickens as an executor; left collections of pictures, drawings, watercolors and gemstones to South Kensington Museum(later Victoria & Albert Mus); many of his gems came from the Hope Collection, see HERTZ,B 1839; prices paid for some noted by M J O'Donoghue, *J Gemm*, 12, 1, 1970, 1-5; DNB.

1352. -----1882

Precious Stones | Considered In Their Scientific And Artistic | Relations. | With A Catalogue Of The Townshend Collection Of Gems | In The South Kensington Museum. | By | A.H.Church, M.A., Oxon., F.C.S., F.I.C. | Professor of Chemistry in the Royal Academy of Arts. | With A Coloured Plate And Woodcuts. | [logo] | Printed for the Committee of Council on Education | By | Chapman And Hall, Limited. | 1882.

8°: 2 pale gray print f(cover & adverts) bound-in + 16 p publ book catalog(Seeley & Co) + viii, 111, [1]p + 8 p publ adverts & gray wrap bound-in; col front pl, tissue, tip-in(figs 1-10); figs 11-19 are text woodcuts; 4 tip-in woodcut pls(Townshend gems). Dk green cloth, gold & black lett on cover with logo & horizontal black rules; blind rules back cover; gilt spine. Pale yellow-tan endp. 19.8 x 13 cm(7 3/4 x 5 1/8 in). Te uncut. Also in pale gray print wrap and with variable inserts of advert matter in a number of printings. JSL.

Cont: wrap f; adverts; 1/2tp; pl; tp; press note; pref; tab cont & ill list; 7 chs; names index; biblio(p 95, 15 entries); Townshend coll; index of specimens in same; catalog of; index; advert; back wrap.

Concise introduction to the nature and properties of gemstones with remarks on lapidary work, artistic employment, imitations and synthetics, and descriptions of the principal species & varieties, followed by an index of stones, the bibliography, and the history & catalog of the Townshend collection. Several plates provide outline drawings of major gems in the collection. The colored frontispiece shows color changes in several gems, appearance of contrasting colors in dichroscope windows, and two absorption spectra. Written in a scholarly yet lucid style and thereby creating an immensely popular work

which saw many printings by various publishers and in paper or cloth, eg, a "New Edition" of 1891, actually a reprint without the advertisements, and some modified issue as noted below.

1353. -----1901, 4th thousand

Precious Stones |...|With A Catalogue Of The Townshend Collection In The | Victoria And Albert Museum |...| [logo] | Fourth Thousand. | Published for the Board of Education | London: Chapman And Hall, Ld.[sic] | 1901

Museum name-change; pref on reverse of tp; p vii-viii note minor corrections and notes. Else identical.

1354. -----1905, new edit

Board Of Education, South Kensington, | Victoria And Albert Museum. | [rule] | Precious Stones |...[3 lines]...| By | A.H.Church, F.R.S., | ... [2 lines] | New Edition. | [logo] | London: | Printed For His Majesty's Stationery Office, | By Wyman & Sons, Limited, Fetter Lane, E.C. | [rule] | 1905. | Price 1s. 6d.; in Cloth, 2s. 3d.

8°: x, 135, [1 blank]p; redrawn col front pl with tissue tip-in; other ill & pls same; same cloth, etc but horizontal cover rules omitted. Also in greenish-gray wrap. 13.5 x 13.6 cm(7 x 5 3/8 in). Cut. LC 5-36277. JSL.

Cont: pl; tp; tab cont & ill list; prefs; biblio(p ix-x, 20 entries); 7 chs; hist of Townshend coll; catalog of same; index; blank p.

Color pl redrawn; text entirely reset; many addit & rev.

1355. -----1908, 3rd edit

... | Third Edition | [logo] | London: |...| By Wyman And Sons, Limited, 109, Fetter Lane, E.C.I [rule] | And to be purchased, either directly or through any Bookseller from | Wyman And Sons, Limited, 109, Fetter Lane, Fleet Street, E.C.; or | Oliver And Boyd, Tweedale Court, Edinburgh; or | E.Ponsonby, 116, Grafton Street, Dubin. | [rule] | 1908. | Price 1s. 6d.; in Cloth, 2s. 3d.

8°: x, 139, [1 blank]p; same ill; etc. JSL.

Cont: pl; tp; tab cont & ill list; pref; pref to first edit; biblio (p ix-x, 20 entries); same thereafter,

Reset, many rev & addit.

1356. -----1913, rev

Victoria And Albert Museum. | [rule] | Precious Stones |...[3 lines] ...| By | Sir A.H.Church, K.C.V.O., F.R.S., | M.A., D.Sc., F.S.A. | Sometime Professor of Chemistry in the Royal Academy of Art in London. | London: | Published By His Majesty's Stationery Office. | 1913. | (Crown Copyright Reserved.) | V. & A.M. Publcn. No. 84 M. Price ls. 6d.; bound in cloth, 2s. 3d.

8°: xiv, 164 p; front col pl less tissue(figs 1-11); figs 12-20 in text; 4 tip-in pls. Dk green cloth, gold & black lett; bright yellow endp. 19.1 x 13.6 cm(7 1/2 x 5 3/3 in). Cut. Also in gray wrap: 21.5 x 13.8 cm(8 1/2 x 5 1/2 in). Cut. LC 14-6965. JSL.

Cont: pl; tp; print hist & prices; ser tp; note on text; prefs; tab cont & ill list; biblio(p ix-x, 23 entries); introd; 7 chs; append; index.

Entirely rewritten: account of the Townshend Coll now forms the introd; catalog of gems broken up and its specimens inserted in the text under appropriate species; append lists gemstones donated to V & A by Church.

1357. -----1924, reprint

Victoria And Albert Museum |...| A Guide To The Townshend Collection. | By The Late | Sir A.H.Church, K.C.V.O., F.R.S. |...[2 lines]...| London: Published Under The Authority Of | The Board Of Education 1924

8°: xvi, 164 p; new col front pl. price 4s., in cloth 5s. JSL. Else same.

"The coloured frontispiece is reproduced from a new drawing made by Miss H.O.Lewis..." Otherwise identical.

CHURCH, A H, see BOOTH, A

CHURCHILL, RANDOLPH HENRY SPENCER, *Lord* (1849-1895)

R H S Churchill was 3rd son of 7th Duke of Marlborough; BA Oxford U 1870; mbr parliament from 1874; held imp political & state positions; Chancellor Exchequer, Leader, House of Commons 1886; resigned 1886 but ret to parliament 1892. DNB.

1358. -----1892

Men, Mines And Animals | In | South Africa | By Lord Randolph S. Churchill, M.P. | Second Edition | London | Sampson Low, Marston & Company | Limited | St.Dunstan's House | Fetter Lane, Fleet Street, E.C. | 1892 | [All rights reserved]

8°: xv, [1 blank], 337, [1 blank], [1], [1 blank]p; fold part col map tip-in to back fly(ca 38 x 47 cm gr 15 x 19 in); photograv front portr pl of author, facsimile signature, tissue; 28 pen & ink sketches on 28 tip-in f; 37 pen & ink sketches in text, all of considerable artistic merit. Maroon cloth, gold & black title with facsimile signature on cover with a scene showing a coach being drawn across a river by horses; gold lett spine & vignette of two gentlemen. Dl gray dull endp. 22 x 14.3 cm(8 5/8 x 5 5/8 in). Te uncut. DeGolyer Coll, Univ Okla; JSL.

Cont: pl; tp; publ data; pref; tab cont; ill list; 20 chs; index; blank p; publ data; blank p.; map.

While the title states "second edition," identical USA issues bearing the same date do not carry this wording on their title-pages; it is believed that this is the first edition, possibly being called 2nd since it contains the revised version of the text originally published in 1891 in The *Daily Graphic* of London. In this book Churchill gives an interesting, lively account of his travels in South Africa as shown on the route map; it was taken to recuperate from poor health and a serious setback to his political aspirations. Ch 3, p 33-48, and part or Ch 4, are devoted to diamonds and the diamond mining industry of South Africa. Mendelssohn states that "there is a good description of Kimberley and the diamond industry, and it is remarked that "The De Beers Directors manage their immense concern with great liberality." "

1359. -----1892, New York edit

...| New York | D Appleton And Company | 1892.

content same but physically differing: map now ahead of index; pale blue & white flecked cloth with blue ostrich plume, author's name, title in gold on cover; gold spine title with horse & rider; tan-yellow endp; extra flyleaves, not part of text. Another issue in olive cloth. LC 14-6389.

1360. -----1893, 3rd edit, London, 8°: xvi, 339, 32 advert p; col fold map, etc. Not seen. See Bulawayo reprint below.

1360A. ----- 1969 Men, Mines and Animals in South Africa. Rhodesiana Reprint Library Volume Seven. Facsimile reproduction of the third edition. Books Of Rhodesia, Bulawayo, 1969. Not seen; foregoing taken from series title of the 1975 reprint of this edition. See below.

1360B.-----1975, 3rd edit reprint

Men, Mines and Animals | in | South Africa | by | Lord Randolph S. Churchill, M.P. | Rhodesiana Reprint Library | Volume Seven | Facsimile reproduction of the third edition | Books Of Rhodesia | Bulawayo, 1969

Facsimile title:

Men, Mines And Animals |...| Lord Randolph S.Churchill, M.P. | Third Edition | London | Sampson Low, Marston & Company | Limited | St.Dunstan's House | Fetter Lane, Fleet Street, E.C. | 1893 | [All rights reserved]

8°: [4] p + tip-in port of Churchill + blank p + orig front + xvi, 339, [1]p; part col fold political map of South Africa, showing travel routes, tip-in facing p 330. Olive-tan paper over bds, gilt native figure on front cover with black horizontal rules; gilt group of men on spine & spine title, with black rules; back cover plain. Elaborately-pictorial orange, white & black dj, with reprod of text illust(8); other bks in series on flap, also vita of Churchill. Printer-logo-stamped endp in pale green design. 21.5 x 14.3 cm(S 3/8 x 5 5/8 in). Cut. ISBN 0 86920 012 7.

Cont: reprint tp; pub] data; ackn; publ introd; portr pl; front; tp, etc of original; print data.

1361.-----1895, "new" edit, London

Men, Mines And Animals | In | South Africa | By | Lord Randolph S. Churchill, M.P. | New Edition | London | Sampson Low, Marston & Company |...| 1895

8°: [1 blank], [1], xvi, 339, [1]p; 28 fullp ill, one per leaf & one as front; all f integral with text sections but not includ in pag; 37 text fig; fold map uncol, tip-in at end of last f. Dk maroon cloth, blind horizontal rules on covers; gold title & blind rules spine. 17.8 x 12 cm (7 x 4 3/4 in). Cut. JSL.

Text identical but entirely reset. Reprinted in 1897, not seen; another modern reprint appeared in 1969 but not seen, also unseen, a reprint in 1975.

1362. CHU TÊ-JUN Ku yu t'ou, or "illustratlons of ancient jade," in two books, 1753. Not seen; from S W Bushell's article "On jade in China," 1900, which see. Bushell states it was first published in the first year of the Chih-chêng period, Ad 1341, but later incorporated as the third work in a volume containing two discourses on ancient bronzes edited by Huang Shêng, and published in 1753. Bushell, quotes, in translation, from this work but gives no pagination. Laufer, *Jade*, p 8, which see, gives the author as Chu Têh-jun, noting that the republication referred to by Bushell was with the edition of Wang Fu's *Po ku t'u*; he notes that the explanations appended to the illustrations are meager but nevertheless reproduced several in his own *Jade.*

1363. CIBJO -(Confédération Internationale de la Bijouterie, Joaillerie, Orfèvrerie, Des Diamants, Perles et Pierres.)

Gemstones | Pearls | Definitions | Rules of Application | List of Gem Names

"International Confederation of Jewelry, Silverware, Diamonds, Pearls and Stones, Palaegade 2. Mezz., Dk-l26l Copenhagen, Denmark, 1971."

Cementb: 23, [1], [1 blank]f (there is no f 1). Plasticized cream paper over bds. 21.1 x 20.8 cm(8 1/4 x 8 1/4 in). Cut. JSL.

Cont: 1/2tp; tp; text; publ data & organisational information; blank f.

Standardization of terms and definitions among members of CIBJO: materials, rules of application; misuse of mineral names; gem cutting style names; artificially colored stones; optical phenomena; prohibits use of "semi-precious;" and other matters, forming, in effect, a glossary of gem and decorative stones with approved nomenclature and definitions.

1364. -----1970, Ger edit

Edelsteine | Perlen | Definitionen | Anwendungsbestimmungen | Übersicht [etc]

Cementb: 21, [1], [1 blank]; (there is no f 1); red cloth. JSL.

1365. -----1970, Fr edit

Pierres | précieuses et fines | Perles | Definitions | Dispositions d'application | Sommaire [etc]

Cementb: 23, [1], [1 blank]f (there is no f 1). Dk blue cloth. JSL.

1366. ÇIĞ, KEMAL

Treasury | Guide, Topkapi Palace Museums [Istanbul: Guzel Sanatlar Matbaasi, 1966]

Cementb: 64 p, (p 1-2 blank); 32 col photos. Col wrap with Topkapi emerald dagger on cover, 16.6 x 11.9 cm(6 1/2 x 4 5/8 in). Cut. JSL,.

Principal exhibits in this famous museum: magnificent jewels; many large and fine emerald crystals employed in ornaments; Spoonmaker or Piggott diamond of 86 carats; several enormous cabochon emeralds of which one weighs 3.260 kg or 16,300 carats; the famous emerald-set Topkapi dagger, and other objects in the treasury of the former Ottoman Empire's rulers.

CIPRIANI, G, see BARTOLOZZI, F

1367. CITY OF GREATER SHANGHAI Guide, Chinese early jade and porcelain exposition, City Museum of greater Shanghai. [Shanghai: City Museum, 1937.] 2 p, 1, 29 p; 19 cm, Not seen, from Born, 99.

1368. CITY OF MANCHESTER ART GALLERIES The John Yates collection of Chinese jade and other hard stones. Manchester: Manchester Art Calleries, 1931, 26 p. Not seen, from Yang, 1238.

1369. CLABAUGH, STEPHEN E Corundum deposits of Montana. *USGS Bull* 983, 1952. Edgestapled: V, 100 p + blank f; 13 fig; 4 tabs; 6 pls(geol maps, 5 col). Pale gray printed wrap. 23.4 x 14.7 cm(9 1/4 x 5 7/8 in). $1.75. JSL.

Definitive; supersedes previous *USGS Bull* 269, 1906, by J H Pratt; most space devoted to gem quality corundum crystals occurring in gravels in a number of river-bed deposits or as tabular crystals in the igneous rock deposit of Yogo Gulch. In addition to geological/mineralogical data contains much historical information. GS 52-214.

1370. CLAFFY, ESTHER W Composition, tenebrescence and luminescence of spodumene minerals. *Amer Min*, 38, 11/12, 1953, p 919-31, 2 fig, tab.JSL. Studies primarily gem quality crystals; Cr in North Carolina hiddenite inhibits luminescence.

1371. CLAPTON, EDWARD

The precious stones of the Bible. 1878. Not seen.

1372. -----1899, [2nd edit]

The | Precious Stones | Of The Bible: | Descriptive and Symbolical. | Being A Treatise On The Breastplate Of The High Priest, | And The Foundations Of The New Jerusalem; | With A Brief History Of Each Tribe | And Each Apostle. | By Edward Clapton, M.D. | London: | Simpkin, Marshall, Hamilton, Kent & Co., Ltd., | 4, Stationers' Hall Court, E.C. | 1899. | B2

16°: xxxii, 231, [1 blank]p; tip-in col litho pl, tissue, front, heightened with gold. Dk brown-red cloth, gilt breastpl on cover with gold lett in orn black floral & ruled frame; gold lett, rules spine. Beveled bds. Dk gray glossy endp. 17.9 x 12.3 cm(7 x 4 7/8 in). Cut. JSL.

Cont: 1/2tp; publ data; pl; tp; tab cont; prefs; introd; 12 chs; 4 appends; blank p.

Useful & authoritative: lengthy prefaces and introduction discuss the order of naming the tribes and apostles and the gems representing each. The text treats, in 12 chapters, the 12 gems, giving what is known of the Biblical accounts of each, also a little on the mineralogies of same, and much on ancient references in the lay literature as well as in the Bible, with quotations as appropriate. The appendices treat the hyssop plant, standards or banners of the Israelic tribes, the "three celestial thrones," and the "tree of life." A very scarce work and judging how seldom it appears upon the market, the first edition must be rare.

CLAREMONT, LEOPOLD

The author was an experienced jeweler/gem cutter of Claremont, Ltd, of Hatton Garden, London; he wrote many articles for the journals of the jewelry trade.

1373. -----1906

The | Gem-Cutter's | Craft | By | Leopold Claremont | Author Of "A Tabular Arrangement Of The Distinguishing | Characteristics And Localities Of Precious | Stones" In The "Mining Journal" | [logo] | London | George Bell And Sons | 1906

8°: xv, [1], 296 p; bound-in front pl & tissue and includ in pag; 119 figs. Grayish-green cloth, oval orn gilt frame enclosing title on cover; gold lett & logo spine. Pale green dj. Teg; fe & be uncut. Cloth usually faded to grayish. 24 x 17.5 cm(9 1/2 x 6 7/8 in). 15s net; U S A $5.00. LC 7-18824. JSL.

Cont: 1/2tp; publ data; pl; tp; publ data; pref; tab cont; 25 chs; tab; append; biblio(p 287-9, 29 entries); index.

Prospectus states: "This is the first book on precious stones... which has been written by a practical gem-cutter," and as such, and despite the somewhat misleading title, the book is a general gemological treatise. Only Ch 4, p 30-68, actually discusses the cutting of gems and then merely describes the steps and tools without telling the specifics or the "tricks of the trade" such that a reader could instruct himself in the art. On the other hand, it is a good gemological introduction and presents some new information which the practical lapidary learns from experience rather than from textbooks. Topics treated include identification, gemstone properties, lapidary work, gem trade, fashion, gems as amulets and talismans, synthetics and imitations, and dyed or treated stones. There is a large table of gemstones versus properties and localities, and the appendix tells how to prepare Sonstadt's solution. The illustrations, mostly photographs, too obviously display a great deal of retouching and several are little more than wash renditions of the originals. However, there are some of value, particularly those showing scenes in the Yogo Gulch sapphire district of Montana which appear nowhere else in the literature.

CLAREMONT, L, see JEWELERS' CIRC PUBL CO. 1906.

1374. CLARK, DEENA & CLARK, BLAKE

Mikimoto | The | Pearl | King | [blue-tint photo of M] | Deena And Blake Clark [Tokyo: K.Mikimoto, Inc., 1964]

Stapled oblong: [1], [1 blank], 26 p; front portr of Mikimoto; 6 other photos. Col wrap. 9.6 x 16.5 cm(3 3/4 x 6 1/2 in). Cut. JSL.

Brief biography; an appendix describes the Mikimoto "Pearl Crown" with photo; text originally in *Reader's Digest*, 1949, p 25 ff.

CLARK, GRAHAME

Noted British historian, archeologist; Emeritus Disney Prof of Archaeology, Cambdidge U, where he was Master of Peterhouse, 1973-80; prolific author.

1374A.-----1986

Symbols of Excellence | [orn rule] | Precious materials | as expressions of status | Grahame Clark | Emeritus Disney Professor of Archaeology, | University of Cambridge | [logo] | Cambridge University Fress | Cambridge | London New York New Rochelle | Melbourne Sydney [1986]

8°: ix, [1 blank], 126 p; 12 col pls(on glossy, wrap-around leaves, bound-in, not includ in pag), 43 figs(photos, drawings). Maroon, cloth-type paper over bds, gilt spine lett, maroon endp; maroon dj, col photo, other press bks, resume, vita. 24.5 x 18.8 cm(9 5/8 x 7 3/8 in). Cut. ISBN 0 521 30264 1. JSL.

Cont: 1/2tp; other bks of author; front pl; tp; publ data; tab cont; ill lists; pref; 6 chs; col pl notes; text notes & refs; index.

At last someone, not connected with the gemstone industry, takes up arms to defend the fascination of mankind for the colorful and precious "idle and wasteful baubles" represented by jewels, gems, and other objects made in whole or part from precious metals, organic materials, and gemstones. Clark's thesis is simple: man has used such objects from time immemorial to express status, authority, taste, or whatever symbolic use deemed by the owner or wearer as appropriate to his own person. After an introductory chapter that provides a broad historical portrait of such use, Clark then gives specific examples in ivory, rhinoceros horn, shells, coral, amber, jet, jade, gold, and precious stones, supporting his remarks by numerous references and citations from historical and archeological literature for the most part, but also referring to treatises which deal with gemstones specifically, or with jades. No writer on historical or cultural gemology should omit this fascinating treatise in his research, while for those who appreciate objects made from precious materials, Clark's convincing arguments as to the fundamental importance of these as "symbols of excellence" provide reasons

enough to collect and cherish same without guilt or fear of being accused of "conspicuous wastefulness."

1375. CLARK, MAVIS THORPE

Life in Australia | [taper rule] | Opal Mining | Mavis Thorpe Clark | Illustrated by | Barbara Taylor | [taper rule] | Oxford University Press [Pen & ink vignettes alongside title; London: Oxford U Press 1969]

Centerstapled: 32 p; 14 pen & ink sketches some spread over 2 pp. Pale purple wrap, vignettes in white panels. 19.7 x 15.5 cm(7 3/4 x 6 1/8 in). Cut. JSL.

Popular explanation of opal, its history, mining, early discoveries, marketing, and more, with an index map of the continent.

1376. CLARK, R INGHAM

A Few | Notes | On | Varnishes | And Fossil Resins | by | R.Ingham Clark F.L.S., F.R.G.S., &c | Illustrated by James West. | [orn] | Charles Letts & Co. | 3 Royal Exchange | London. [nd, but this copy inscribed by author "1/VI/92"; 1892?]

Entire title hand-drawn and enclosed in an elaborately scrolled and decorated frame and signed by the artist.

4°: [4], iv, 69, [3 blank]p; 4 small sketches on front pl; many similar sketches throughout text; head- and tailpieces. Pale brown cloth, beveled edges, elaborate black & red-brown lett, orn & rules on front cover & spine; back cover red-brown rules. Brown-yellow floral endp; brown paper inner hinges. 28.4 x 22 cm(11 1/8 x 8 3/4 in). Ae stained dk brown. Thick semi-glossy paper. JSL.

Cont: blank p; front sketches; tp; sketch; tab cont; 2 part text; 3 blank p.

The first part of this unusual book treats varnish and Japanese lacquer, discussing early history, raw materials, manufacture, and other germane topics. The second part is more of interest to the gemologist inasmuch as it deals with fossil resins, including amber, animis, copals, kauri, gum damar, and mastic. Discussions of each are not pursued in depth but all provide interesting reading and the book as a whole appears to be more of a popular guide to the substances mentioned than any serious instructional text. The outstanding feature is its extensive decoration with sketches of scenes, workers, persons, plants, and the like, forming an attractive book of considerable visual excitement. Rare.

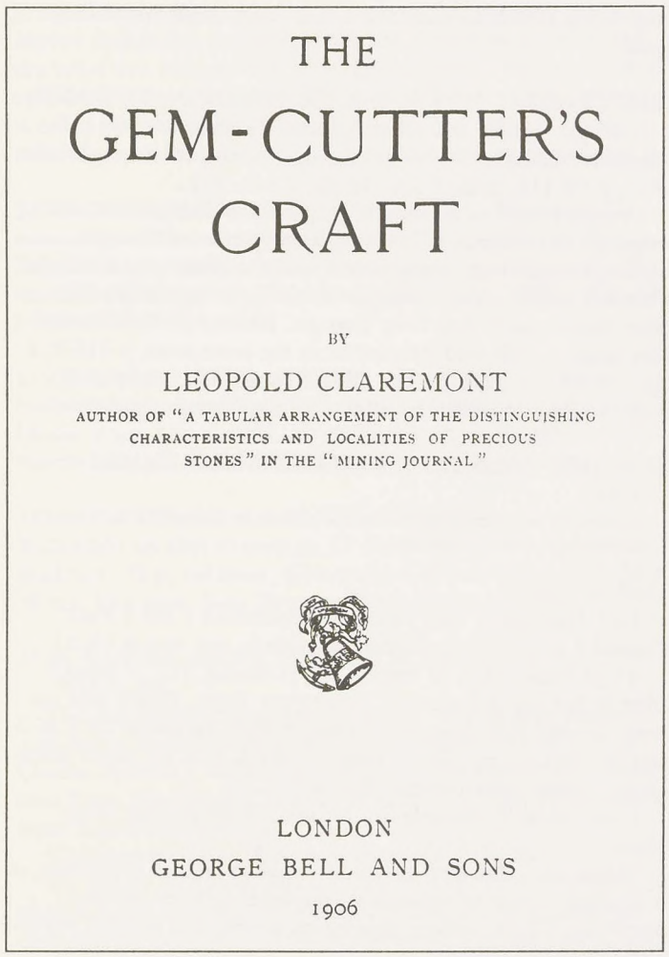
1377. CLARKE, ARTHUR CHARLES(1917-)

The Coast of Coral | By Arthur C.Clarke | With photographs in color and black-and-white | by Mike Wilson and Arthur Clarke | [rule] | Harper & Brothers, Publishers New York [logo] [1956]

16°: x, [2], 208, [4 blank]p; 50 photos on 16 f, 13 col photos on 4 f, bound-in as 3 separate sections; sketch map. Pink, white, green banded paper over bds; dk green cloth spine, white lett & dec; pale blue endp with white outline maps; col dj, resume. 23.4 x 15.5 cm(9 1/4 x 6 in). JSL.

Cont: 1/2tp; other bks; tp; publ data; dedic; tab cont; ill list; subtp; map; 26 chs; 4 blank p.

The author, better known as a science fiction/space exploration writer describes adventures on Australia's Great Barrier Reef. Pearls and pearl fishing are mentioned in many places, with some useful information on commercial fishing at that time; major pearl notes in chs 15-18.


THE

GEM-CUTTER'S CRAFT

BY

LEOPOLD CLAREMONT

AUTHOR OF "A TABULAR ARRANGEMENT OF THE DISTINGUISHING CHARACTERISTICS AND LOCALITIES OF PRECIOUS STONES" IN THE "MINING JOURNAL"

LONDON

GEORGE BELL AND SONS

1906

1373. A professional gem-cutter of London tells about gem cutting but reveals no secrets

1378. CLARKE, FRANK WIGGLESWORTH(1847-1931) & MERRILL, GEORGE PERKINS(1854-1929)

On nephrite and jadeite. *Proc USNM*, 11, 188A, p 115-39, Pl 33; also issued separately. Examinations of jades from Alaska and Costa Rica; Merrill made microscopical investigations, Clarke the chemical analyses. Results compared to jades from other localities according to other publ accounts; important contribution. Born, p 100; JSL. Clarke DAB, 21, p 177-8; Merrill see under his name.

CLARKE, F W, see BISHOP, H R, 1900.

1379. CLARKE, ROY S, Jr & CARRON, MAXWELL K

Comparison of tektite specimens from Empire, Georgia, and Martha's Vineyard, Massachusetts. *Smithson Misc Coll*, 134, 4, 1961, Publ 4465. Separate in print wrap: [2], 18 p, Pls 1-6, 3 figs, 4 tabs. Pale brown wrap. 24.3 x 16.1 cm(9 1/2 x 6 3/8 in). Unopened. Pls tip-ins at end. JSL. LC 61-62445.

On basis of "close agreement in color, density, and magnetic properties ...[and]... new physical and chemical data," the authors establish a new class of tektites but are cautious in even claiming that the specimens are of natural origin. Only one specimen found on Martha's Vineyard, but many in Georgia, the

latter being similar to moldavites, and some could be cut into gems.

1380. CLARKE, ROY S, Jr & HENDERSON, EDWARD P Georgia tektites and related glasses. *Georgia Mineral Newsletter*, Georgia Geological Survey, Atlanta, vol 14, 4, Winter 1961, p 90-114, map, 5 figs, 14 pls, 3 tabs. JSL.

General review of tektites & geographical distribution; descriptions of occurrences in Georgia, properties of Georgia tektites, morphology, composition, and comparison to Martha's Vineyard tektite. Fine photo pls which depict specimens from other regions as well as from Georgia. Biblio p 114, 49 entries. This article is followed by another in the same issue, p 115-9, 3 figs, 16 refs, on geologic age of the Georgia tektites by A S Furcron. First scientific description of the Georgia specimens.

CLAUDEL PAUL-LOUIS-CHARLES-MARIE(1868-1955)

Eminent Fr humanist, poet, dramatist, diplomat; Fr Ambassador to Tokyo 1922. *Dict Biogr Franc* 8, cols 1384-6.

1381. -----193-?

La | Mystique | Des | Pierres | Precieuses | Par | Paul Claudel | [orn] [Paris: Cartier, nd; title in red, orn in black]

4°: [3 blank], [2], [1 blank], 38, [1 blank], [1], [2 blank]p (first & last blank f enclosed by wrapper flaps). Heavy pale tan wrap, inward fold flaps; title in red & black on cover. 33 x 25.3 cm(13 1/8 x 10 in). Te cut others deckled. Pale tan paper throughout; white paper-covered slipcase.JSL.

Cont: blank f; example no; tp; text; blank p; print data; blank f.

Handsome, slipcased brochure issued to favored customers; it is an appreciation of gemstones, emphasizing their mystical properties. Treats mineral gemstones, pearls, and finished jewels. Total issue not shown.

1382. CLAYTON, P A & SPENCER, L J Silica-glass from the Libyan Desert. *Min Mag*, 23, 1934, p 501-8, 4 fig (map). JSL. Sand-sculptured glass masses found in a remote region by a survey expedition under Clayton, with remarks on the nature of the site and the glass occurrence; a sketch map shows the locality in the "Sand Sea" southwest of Cairo. Spencer examined the specimens and determined optical, physical, chemical properties. Sometimes cut into gems.

1383. CLÉMENÇON, TOUSSAINT(d 1865) Considérations abregées sur la géognosle du district des diamants du Brésil, par le docteur Elémencon [sic]. Lyon, L.Perrin, 1836. 20 p, 22 1/2 cm. *Annales, Soc Linnéene de Lyon*, 1, 1836. Caption title: "Note sur l'extraction des diamants dans le Comarca do Cerro do Frio, province des mines au Brésil, par... Clémençon" p [13]-20. USGS Kunz Coll, GS 34-537. Iglesias & Meneghezzi, 1959, p 75. Not seen.

CLÉMENT-MULLET, JEAN-JACQUES(1796-ca 1865)

Fr student of oriental languages; publ translations of various works in German, Arabic, Hebrew; his essay on Arabic mineralogy was published posthumously. *Dict Biogr Franc*, 8, col 1453.

1384. -----1886 Essai sur la minéralogie arabe. *J Asiatique*, 6 série, 11, janvier 1868, p 1-81; février-mars p 109-253; juin p 502-22; the paginations below suggest that these articles were published separately. Not seen.

1385. -----1982(?), reprint

Jacques Clément-Mullet | Essai | Sur La Minéralogie | Arabe | Une Étude Historique Et Philologique, | Particulièrement | Sur Les Gemmes Ou Pierres Précieuses | Basée | Sur Le Traité De Teifaschi (XIIIe Siècle) | Avec | Un Index Des Mots Expliqués | Suivi De | Recherches Sur L'Histoire Naturelle | Et La Physique Chez Les Arabes | [logo] | APA - Oriental Press | Amsterdam [nd, post 1981, probably 1982]

"Journal Asiatique, Extrait N° 1 (1868) | & 5ᵉ Série, Tome XI (1858) Réimpression Des Éditions Paris 1868 & 1858..."

8°: [iv]p + p 1-248, [379]-406 + [1 blank], [2], [1 blank]p. Bright yellow-green wrap, title on cover; adverts back cover. 22.5 x 15 cm(8 7/8 x 5 7/8 in). Cut. ISBN 90 6023 298 4. A facsimile.

Cont: 1/2tp; tp; publ data; text; vocabulary; note by Damour; addit to jade ch; tp & text; blank p; tp of two other works of publ; blank p.

This extensive, detailed, and annotated commentary is based mostly upon Teifaschi's celebrated treatise on gemstones written about the Year 640 of the Hegira or 1242 AD. Authorities consulted include Teifaschi manuscripts and others of a gemological/mineralogical nature that were contemporaneous and preserved in the Bibliotheque Nationale in Paris. Other authors include Theophrastus, Pliny and Boetius De Boodt. The first and longest part of the present work comments on Teifaschi's writings, noting his methodical treatment of properties, physical & medicinal, of gemstones, their origins according to Aristotle and a certain Belinas, whose identity receives a long discussion from Clément-Mullet, the causes of color in gemstones, and other matters, including price structures according to factors of quality, rarity, color, etc. Next appears a discussion of the 24 categories of gemstones described by Teifaschi and other Arabic writers, in which is treated their nomenclature, identities, and so on, giving in part the Arabic terms for same and sometimes providing translations of Teifaschi's text where deemed useful. The descriptions are of pearl, corundum, emerald & beryls, spinel, hyacinth, garnet, diamond, cat's-eye, bezoar, turquoise, carnelian, onyx chalcedony, lodestone, emery, malachite, lazulite(lapis lazuli?), coral, jet or obsidian, amethyst, hematite, oriental jade, jasper, rock crystal, talc and mica, There is a short section on specific gravities, with a table, based on early Arabic writings, and an appendix on the valuation of gemstones & pearls, a glossary of terms, Arabic vs French, a note by Damour on the specific gravity of ancient glass, an addition to the chapter on jade, and lastly an extract from the *Journal Asiatique*, ser 5, 11, 1858, p 379-406 dealing with specific gravity determinations of solids as obtained by Arabic scientists, specifically by Al Biruni. A table in this part provides values for numerous gemstones, including amber and pearl.

The above is a landmark in gemological history because it so closely examines the extent of gemological knowledge possessed by Arabic peoples in the thirteenth century and the sources of their gemstones and trade in same in Africa, the Near East, and into India and Ceylon. Regrettably Teifaschi has never been translated into English either from original writings or from translations in other languages, nor even from the present work which surely is deserving of its own translation. Very scarce.

1386. CLERCQ, LOUIS-CONSTANTIN-HENRI-FRANÇOIS-XAVIER DE(1836-1901); MÉNANT, JOACHIM (1820-1899) & RIDDER, ANDRÉ HENRI PIERRE DE(1868-1921) Collection de Clercq. Catalogue méthodique et raisonné. [Vols. iii-vii Catalogue publié par les soins de l'Académie des Inscriptions et Belles-Lettres et sous la direction de Mm. de Vogue, E Babelon, E Pottier.] Paris: Ernest Leroux, Editeur. 1885- 1912. 7 vols in 8 and index vol; ill; pls(some fold). Large folio vols i & ii and large 4° vols iii-vii and Index. Ca 35 x 27.5 cm. Not seen, above from Goodland, p 126. Vol vii, part 1, "Les Bijoux," 436 pp, 15 pls; "Les Pierres Gravées," 873 pp, 30 pls. Apparently Ménant was responsible for the part on engraved gems and these appear as separates under his name.

1387. CLEVINGER, WOODROW R

Chehalis-Newaukum | Carnelian Agate | Collectors' Guide | By | Woodrow R. Clevinger | Seattle University | Seattle University Book Store | Seattle, Washington, 98122 | 1970 | Price: $1.00 per copy

Centerstapled: [1], ii, 29 p; 16 figs(photos, drawings, maps). Red print wrap, dec title on cover, 21.6 x 17 cm(8 1/2 x 6 3/4 in). Cut.

Clearly written guidebook to chalcedony collecting localities in the State of Washington in a region S of Olympia: history of carnelian, geologies of the several fields, directions, what to look for; crudely drawn but adequate figs & maps.

1388. CLOOS, WALTHER

Walther Cloos | Kleine Edelsteinkunde | im Hinblick auf die Geschichte der Erde | 1956 | Novalis-Verlag · Freiburg I.B.

8°: 159, [l]p; 16 pls(8 col) on 8 tip-in f. Black, unfin cloth, silver lett cover & spine; col dj, resume. 22.7 x 15 cm(8 7/8 x 5 7/8). Cut. Mk 17. JSL.

Cont: 1/2tp; tp; publ data; dedic; tab cont; fwd; text; biblio(p 154, 32 entries); pls index; index; blank p.

A curious work, being a series of rambling essays in which the author's fancies are intermixed with facts and advancing ideas completely at variance with those currently accepted on the origins of gemstones. Cloos continually compares growth of crystals to growth in plants, suggesting that plants and crystals are much more closely connected than popularly realized. He frequently cites Dr R Steiner whose ideas are equally strange. There are many misleading statements about crystals which appear to be based firmly on ignorance. The color plates are borrowed from Midderigh-Bokhorst's *Glans En Gloed*, 1955, which see. Scarce.

1389. CLOSS, ALOIS Die Steinbücher in kulturhistorischer Überschau. *Joanneum Graz Mineralogische Mitteilungsblatt*, Nr 1, 1958, p 1-34. Not seen.

CLUTIUS, AUGERI [recté CLUYT, AUGER](1599?-post 1631]

B ca 1590 in Leyden; inspired by his father, a famous botanist, he too studied botany and traveled extensively throughout Europe on collecting expeditions; eventually became MD & Director of the Public Gardens, Leyden. *Biogr Univ* 9, p 145-6.

1390. -----1627 Calsvee sive dissertatio lapidis nephritici seu jaspidis viridis, a quibusdam callois dicti, naturam, proprietates et operationes exhibens, quam (ex sermone belgico) sermone latino recensuit Gul.Laurenberg. Rostochii [Rostock] 1627. [12]f. Not seen. An extended analysis of this paper in Fischer, *Nephrit und Jadeit*, p 102-5, which see. Discusses nephrite and the belief that it is some form of green jasper; compares same to callaite or Persian turquoise. The "calsvee," "calsoe," or "calsoy," is called by the Persians "roccha vecchia," or "old rock," here referring to an old trade term for genuine Persian turquoise.

1391. COBB, MARGARET CAMERON The origin of corundum associated with dunite in western North Carolina... Bryn Mawr, Pennsylvania, 1924, 43, [1]p, 7 pls, fold map. 23 cm. Thesis(PhD), Bryn Mawr Coll, 1922. Vita, biblio p 32- 43. LC 24-29247. Not seen.

1392. COCANOWER, NAOMI Turquoise: American Indian legends about the origin and use of the sky blue stone. Mosaic Press, Ohio, 1982. Silver lett etc on cloth, silver endpapers, 64 p, ill. ISBN 0-88014-010-0. $24.00. Not seen.

1393. COCHE, DE LA FERTÉ, ETIENNE Le camée Rothschild un chef-d'oevre du IV siècle apres j.-c.-. Paris, 1957. Buckram: 73 p, col front, 44 text ills. Ltd edit 300 copies. 28 x 23 cm. Not seen, from Thomas Heneage Cat 4, 1985.

1394. COCKS, ANNA SOMERS & TRUMAN, CHARLES

The Thyssen-Bornemisza Collection | Renaissance jewels | gold boxes and objets de vertu | Anna Somers Cocks and Charles Truman | General Editor Simon De Pury | The Vendome Press, New York | in association with | Sotheby Publications, London [1984]

"Catalogues of the Thyssen-Bornemisza Collection."

8°: 384 p; 37 figs in part 1(2 col) + 148 col & 482 b&w photos in the catalog part. Black buckram, gilt spine title; gilt coat-of-arms front cover; pale yellow endp. Double-fold dj, flap resume, vita. 29.3 x 24 cm(11 1/2 x 9 1/2 in). Cut. Glossy paper throughout. $85 to 12/3/84, $95 thereafter. LC 84-7342; ISBN 0-86565-044-6. JSL.

Cont: 1/2tp; tp; publ data & ackn; tab cont; ackn; fwd; introd of 4 chs; catalog, p 63-371; biblio(p372-5, ca 225 entries); index of marks (177 photos); gen index.

Outstanding work describing and comparing the objects in the collection to similar objects in other collections, and with thorough documentation and excellent color and other photographic illustrations. The first part is an elaborate introductory on the background of the artists, their patrons, and the cultural atmosphere of the times that permitted such costly works to be created, most of which are in beautiful taste and made with the utmost skill. The principal objects are jewelry pieces, snuff boxes, vases and other containers, and a miscellaneous assortment of small but precious objects wrought in a large variety of gemstones, enamels, and precious metals. Among the gem materials are rock crystal, represented in several splendid carvings, also lapis lazuli in carvings and containers. Many references are cited in the text and gathered up in the very large bibliography. Physically, the book is sturdily made of high quality materials; it promises to be long-lasting in terms of durability and usefulness.

1395. CODAZZI, RICARDO LLERAS Gemas v minerales litoides de la república de Colombia. *Trabajos de la Officina de Historia Natural, Sección de Mineralogía y Geología*, Bogota, 1904, 38 p. Not seen.

1396. -----1925, 1926 *Notas mineralogicas y petrograficas*, Biblioteca Del Museo Nacional, Bogota, 1925, "Los satelites de la esmeralda," p 5-11, 2 pls; "La leyenda de los diamantes," p 13-15; "Las amatistas en las rocas Colombianas," p 15-16; "Nota sobre las tektitas de Colombia," p 35-38, pl, with addit note on tektites p 89. 1926 edit contains a summary of the geology of the departments of Cundinimarca and Boyaca, with extensive comments on formations enclosing emerald-bearing veins. JSL.

1397. -----1927

... Los Minerales | De Colombia | Por | Ricardo Lleras Codazzi | Conservador del Museo de Historia Natural y Profesor de la Universidad. | [double rule] | Edicion oficial | [double rule] | Bogota | Imprenta Nacional | 1927

At head of title: " Republica de Colombia | [double rule] | Biblioteca Del Museo Nacional | [double rule]..."

Edgesewn: 150, [2 blank]p; 20 glossy tip-in pls(2 of crystal forms, remainder of mineral specimens). Pale gray wrap, cover title. 24 x 16.7 cm (9 1/2 x 6 5/8 in). Cut. Paper browning. JSL.

General mineralogy & mineral identification to p 74, thereafter descriptions of Colombian minerals including gem materials: marble, diamond, corundum, colored tourmaline, emerald, rock crystal, agate, varieties of chalcedony & jasper, tektites, obsidian, and also the non-gem species associated with emeralds in the Muzo deposits.

1398. -----1929 Minas de esmeraldas. *Boletín Departamento de Minas y Petróleos de Colombia*, 1, 6, 1929, p 114-43, 5 maps, 2 sketches. JSL. History of the discovery and exploitation of emerald deposits, regional geology, geology of Boyacá Plateau, Muzo mines with notes on petrology, formations, veins and emeralds therein, associates, qualities and values of emeralds, other emerald mines as Coscuez, La Chapa, Chivor, etc. Sketch maps of principal mines. Valuable, authoritative.

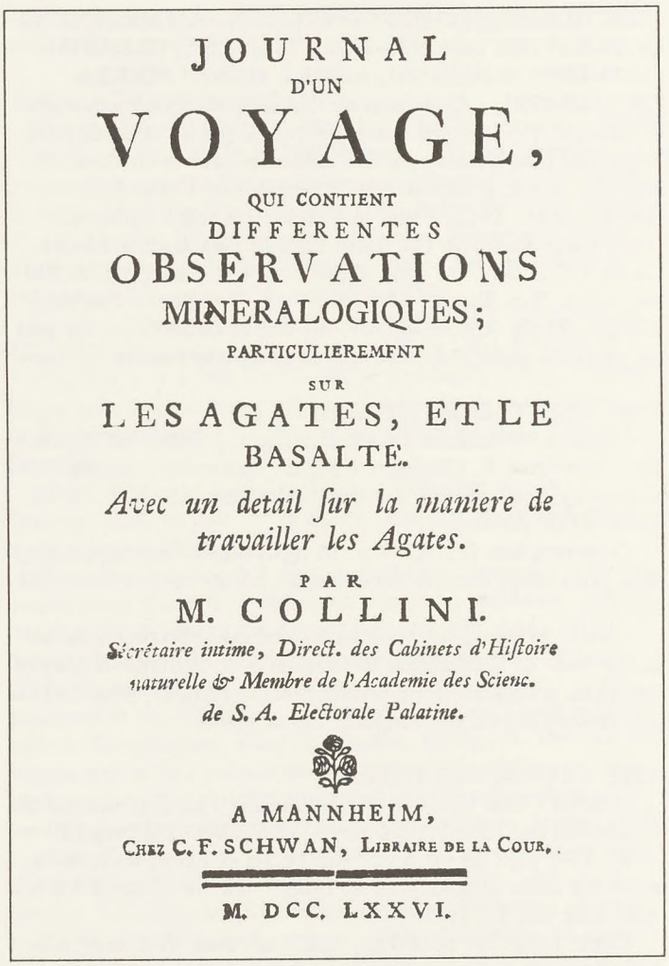
1399. COE, MICHAEL D An early stone pectoral from Southeastern Mexico. *Studies in Pre-Columbian Art and Archaeology*, No.l, Dumbarton Oaks, Trustees for Harvard University, Washington, D.C. Centerstapled: 18 p, 11 figs(fig 11 folds out in 3 panels). Tan printed wrap. 26.8 x 19.7 cm(10 1/2 x 7 3/4 in). Cut. JSL. Green quartzite, 26.7 x 9.2 cm, from some place "about two day's journey" from Mérida, Yucatan. Olmec iconography.

COE, M D, see BENSON, E P

1400. COE, T E The diamond placers of the Vaal River, South Africa. *Trans Inst Min Met*, London, 13, 1904, p 518-32, Pls 12-14(photos, views); 3 fig(map, sect). History of discovery/mining, origin deposits, localities, qualities of crystals; working systems; concentration, economics,claims; discussion.

1401. COHEN, ALVIN J Color centers in the α-quartz called amethyst. *Amer Min*, 41, 11/12, 1956, p 874-91, 8 fig. JSL. Measured absorption spectra six specimens; notes green color after bleaching of a Brazilian specimen.

1402. COHEN, ERNST Über die südafrikanischen Diamantfelder *Fünfter Jahresbericht der Verein für Erdkunde zu Metz*, 1882, p 129-65, 3 pls; also issued sep. N Monica Southey gives "Metz, Lothringen, 1883, 37 p., plan." Not seen.



JOURNAL
D'UN
VOYAGE,
QUI CONTIENT
DIFFERENTES
OBSERVATIONS
MINERALOGIQUES;
PARTICULIEREMENT
SUR
LES AGATES, ET LE
BASALTE.
Avec un detail ſur la maniere de travailler les Agates.
PAR
M. COLLINI.
Sécrétaire intime, Direct. des Cabinets d'Hiſtoire naturelle & Membre de l'Academie des Scienc. de S. A. Electorale Palatine.
A MANNHEIM,
CHEZ C. F. SCHWAN, LIBRAIRE DE LA COUR.
M. DCC. LXXVI.

1412. First adequate description of the agate-cutting industry of Germany's Idar-Oberstein region; titlepage of the French-language edition

1403. COHEN, LOUIS(1854-) Reminiscences of Kimberley. London, 1911. 8°: 436 p. Cloth, 7 1/2 x 5 in. Limited to 80 copies. Not seen. N Monica Southey gives "London: Bennett, 1911, ix, 436 p." Covers the period 1872-1881.

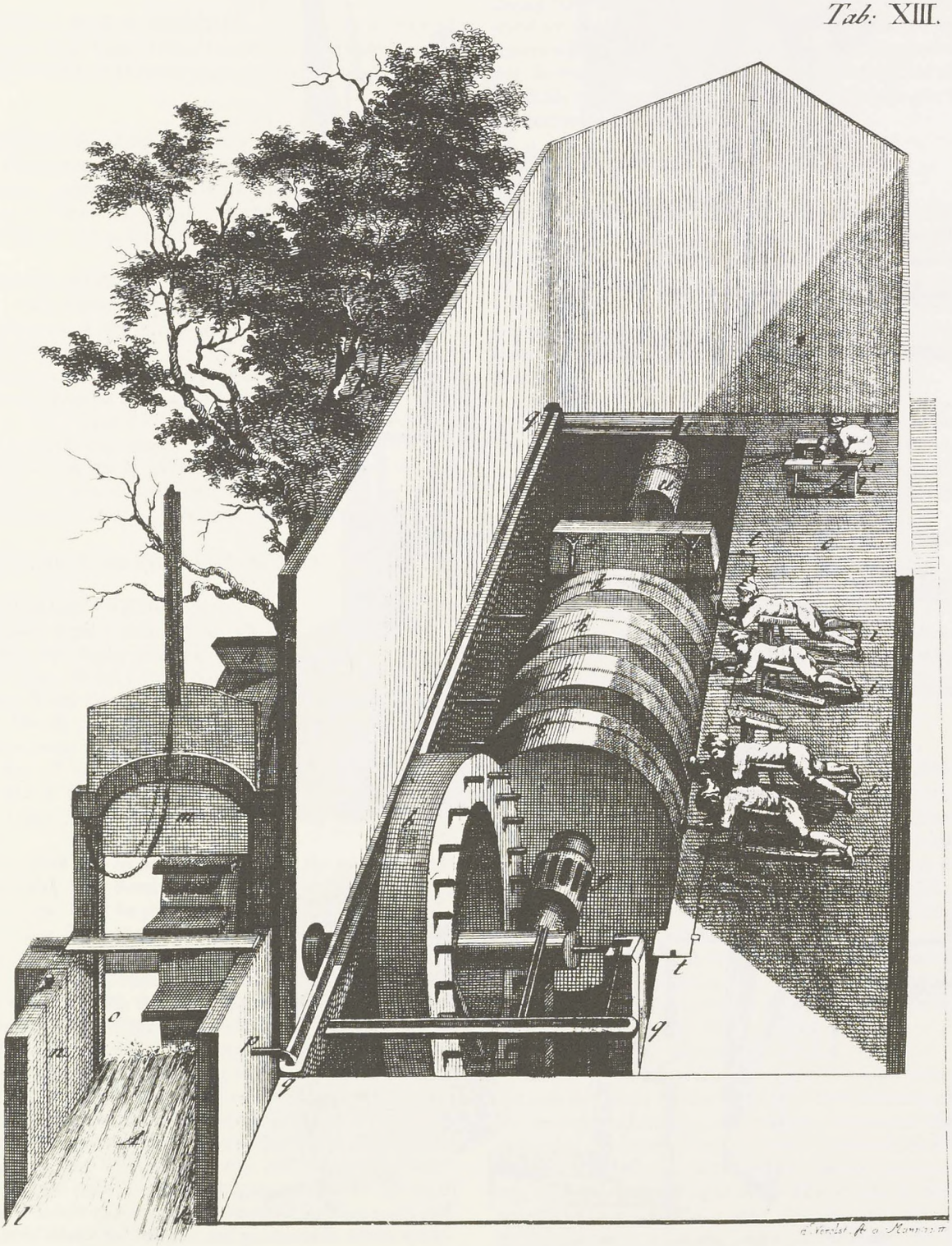
1404. -----1924.

Reminiscences Of | Johannesburg & | London | [double rule] | By | Louis Cohen | Author of "Reminiscences of Kimberley" | London | Robert Holden & Co. Ltd. | 12 York Buildings, Adelphi, W.C.2 [1924]

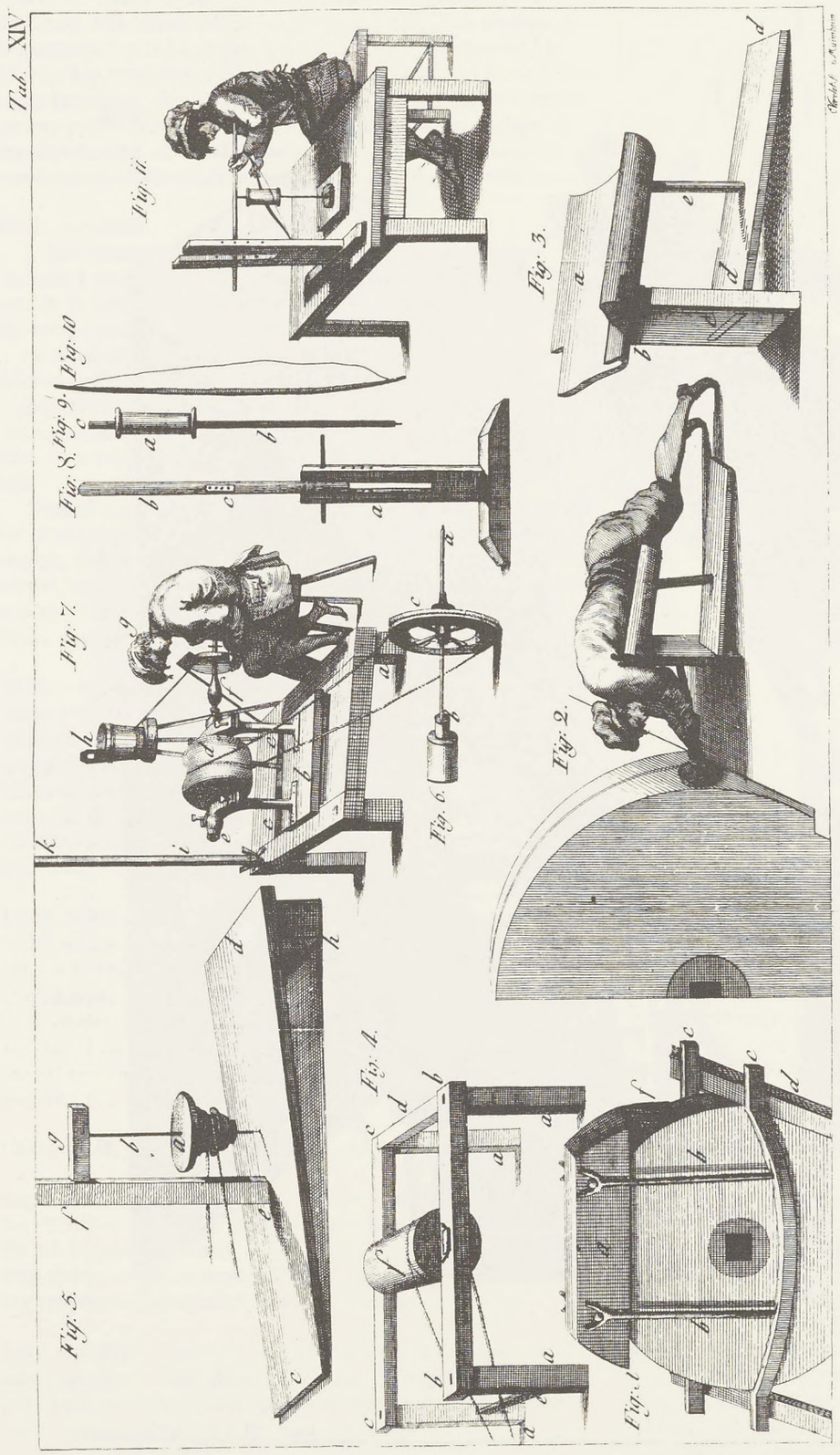
8°: 316 p, without flyleaves/endp, hence p [1-4] serve as such and flyleaf and [2] blank f serve same function at end of book. Tip-in front portr photo of author on glossy f. Brownish-red cloth, blind frames on covers; gold lett, rules on spine. 21.1 x 13.8 cm(8 1/4 x 5 3/8 in). Cut. Coarse, thick paper. JSL.

Cont: (not counting flyleaves/endp), 1/2 tp; pl; tp; publ data; dedic; tab cont; pref; 16 chs; index.

Fascinating anecdotes written in an informal, wryly amusing style, about persons and events in South Africa, with numerous



1412. Plate 13 from Collini's description of the Idar-Oberstein industry here showing an agate-grinding mill



1412. Plate 14 from Collini showing details of lapidary grinding, smoothing, and polishing operations in Idar-Oberstein

scattered references to persons and events connected with the diamond mining industry, with mentions of Barnato and Rhodes, and others. Cohen makes clear he was friendly with most of the important figures in this milieu.

1405. COHEN, M R & DRABKIN, I E A source book of Greek science. New York, 1948. "Drabkin has translated into English 17 sections of Theophrastus's work on "stones"." Not seen.

1406. COHEN, W Beschreibende Verzeichniss einer Sammlung von Diamanten und der zu Bearbeitung derselben notwendige Apparate, welche... Majestät dem Kaiser für das K.Mineralien-Kabinet ln Wien... dargebracht wurde,. Vienna: Anton Strauss, 1822, 4°: 51 p. Not seen. Cohen was court jeweler.

1407. COKER, ROBERT E Fresh-water mussels and mussel industries of the United States. *Bull U S Bur Fisheries* 36, 1917-18, Document No 865, issued October 25, 1919, Washington, D C Separate: 8°: p 11-89, front col pl of three mussel shells; exterior views - 46 photo pls tip-ins; fold map of Mississippi River drainage; 5 text figs; 19 tabs. Print green paper wrap. 28 x 19 cm(11 x 7 1/2 in). Cut. $.40. JSL. Excellent summary: occurrences, natural history, mussel fishing, use of shells and pearls in arts & industry; excellent photos of shells various species & text descriptions of same; the pearl button industry and manufacturing processes described in detail.

COLACICCHI, P, see MORASSI, A, 1963

1408. COLAHAN, JOHN

Australian | Opal | Safari | John Colahan | [logo] [Adelaide, Sydney, etc: Rigby Limited, 1973]

8°: 127, [l]p; 95 col photos(one is front); 28 b&w photos; sketch map; 4 text sketches. Dk blue cloth type paper bds; silver lett spine. Col dj, photo on front; resume, vita. Reddish-brown endp with 4 maps in white & details in reddish-brown. 24.,7 x 19 cm(9 3/4 x 7 1/2 in). Cut. Aus $ 8.95. LC 72-83020; ISBN 0 85179 613 3. JSL.

Cont: 1/2tp; photo; tp; publ data; tab cont; dedic; 11 chs; col photo.

Colahan spent 6 months in 1970 touring the opal fields of South Australia, New South Wales, and Queensland; as a result of this and other trips he provides an excellent survey and guide to all the major fields as well as to some of lesser importance, giving for each some account of early discoveries and experiences, present conditions, mining methods, and some practical advice to others wishing to retrace his paths. He begins by treating briefly the geology of the fields, opal occurrences, internal structure, values of gem material, production, and the features of a typical deposit, passing into a discussion of mining methods, particularly of value because of being illustrated with photos of modern machinery and equipment, and then going on to describes the major fields, among them, White Cliffs, Lightning Ridge, Coober Pedy, Andamooka, and others. Ch 9 tells how to find opal once mining has begun with advice on use of explosives. The last chapter briefly describes lapidary work and gives valuable advice to travelers and prospectors. Many splendid, high quality photos. Rev *Gems*, 7, 5, 1975, p 45,

COLE, WILLIAM, see MARLBOROUGH GEMS

1409. COLEMAN, ALBERT E Life in the diamond fields. *Harper's New Monthly Mag*, New York, 46, 273, Feb 1873, p 321-36; 14 wood engrav including a small sketch map. JSL. Valuable first-hand account of a visit commencing June 1871 during the initial frenzy of pipe mine exploitation; describes travel to South Africa and in the interior, life in the mining communities, weather, native workmen, the diamond deposits, etc; charming wood engravings, several of which are views in the fields and depicting the early sinking of claim pits upon the pipe outcrop.

COLEMAN, A P, see MILLER, W G, 1899.

1410. COLEMAN, R G Jadeite deposits of the Clear Creek area, New Idria district, San Benito County, California. *J Petrology*, 2, 2, 1961, p 209-47, 11 fig, plate(2 fig), 8 tabs. Also separate. JSL. Detailed descriptions of lens-like and vein bodies of jadeite in tectonic inclusions in the New Idria serpentine body, the associated minerals, and conclusions on genesis; some of this material as rolled masses in Clear Creek has been used for gem purposes.

1411. COLLETT, OLIVER, et al Pearl oysters and pearl fisheries. *J Ceylon Br Roy Asiatic Soc*, Colombo, 16, 51, 1901, p 165-97; also in *Ceylon Observer*, Colombo, 1900(1901), 12 p. Not seen, from Kunz & Stevenson, *Book of the Pearl*, bibliogr.

COLLINI, COSIMO ALESSANDRO, also COSMO, CÔME, ALEXANDRE(1727-1806)

B Florence; stud law; PhD jurisprudence; historiographer; ca 1750 to Berlin where met Voltaire(1694-1778), becoming his secretary from 1752 to 1756; priv secty 1759 to Elector of the Palatine, Germany, and dir of the Cabinet of Natural History in Mannheim. Pogg I, 465; *Biogr Univ*, 9, 269-70; Interesting background(correspondence) by G Mayer, *Der Aufschluss*, 33, Jun 1982, p 245-56, 4 ills.

1412. -----1776

Journal | D'Un | Voyage, | Qui Contient | Differentes | Observations | Mineralogiques; | Particulieremfnt [sic] | Sur | Les Agates, Et Le | Basalte. | Avec un detail sur la maniere de a travailler les Agates. | Par | M.Collini. | Sécrétaire intime, Direct. des Cabinets d'Histoire naturelle & Membre de l'Academie des Scienc. | de S.A.Electorale Palatine. | [small orn] | A Mannheim, | Chez C F Schwan, Libraire De La Cour. | [short double rules] M.DCC.LXXVI. [1776]

8°: XII, 384 p;)(^{6}, A-Aa^8; 15 engrav fold pls bound-in at end. 17.3 x 10 cm(6 3/4 x 4 in). Cropped. Woodcut head- & tailpcs. JSL: Harvard U; Ward & Carozzi 496; De Golyer Coll Okla U; Dewalque 117, 1704; Agassiz II, 92.

Cont: tp; dedic; tab cont; 21 chs; pls.

Largely written as a diary of Collini's travels through the German Palatinate for the purpose of systematically examining the geology, mineralogy, and industries connected with the extraction of minerals, and with special remarks on mercury deposits and recovery, but even more on the occurrences, mining, and processing of agate in the Idar-Oberstein district. This appears to be the first competent description of the agate deposits and the lapidary industry, especially in respect to its illuminating details on lapidary techniques, machinery, accessories, etc. The journey was sponsored by the Elector and to him the volume is dedicated.

Collini was a careful observer, his descriptions of geological and mineralogical matters, as well as the lapidary portions of the text, display a learned mind and shrewd analyst. Even today, little fault can be found with his descriptions and interpretations, especially as concerns lapidary work. Each chapter is devoted to a stretch of the journey or to some important topic which deserves considerable elaboration. Agates are described and discussed at length in Ch 3, p 28-37, the village of Oberstein, with its famous "Chapel in the Rock" overlooking the valley of the Nahe River is described in Ch 10, p 109-14, with one of the engraved plates showing a scene in which the chapel appears across the river. Ch 11, p 115-25, describes the surrounding mountains and the agate deposits and how they are mined. Ch 12, p 126-227, is an especially large and detailed description of the very many types of agates that are found here, the nodules or geodes of agate, the associated minerals, and with speculations on the origin of the fillings. A brief comment is made on heat treatments carried out by Collini. Of the 15 plates, no less than 10 are of mineral specimens collected by Collini, including several which show types of agate and other forms of quartz. Ch 13, p 228-71, carefully traces the steps taken by the workmen in fashioning gems and ornamental objects from the raw materials and is the first adequate account, of great accuracy incidentally, of the methods used. Pls 13 & 14, are famous for their depictions of a typical water-powered lapidary shop, showing the workmen reclining on benches in a horizontal position, and the equipment used to further process gemstones by means of drilling and polishing. Both plates have been reproduced in many subsequent gemological treatises.

1413. -----1777, Ger edit

C.Collini | Tagebuch einer Reise | welches | verschiedene mineralogische Beobachtungen | besonders über die Agate und den | Basalt enthält; | nebst einer Beschreibung der Verarbeitung | der Agate. | [rule] | Aus dem Französischen übersetzt | und mit Anmerkungen begleitet | von | J.S.Schröter. | erster Diakonus zu Weimar, der römisch, kaiserl. Aka= | demie der Naturforscher und verschiedener andern | gelehrten Gesellschaften Mitglied. | [orn rule] | Mannheim, | bei C.F.Schwan, kuhrfürstl. Hofbuchhandler. | 1777.

8°: [16], 582, [2]p;)(^{8}, A-Nn^{8} Oo^{4}; 15 pls as before, now inserted in appropriate places in text; woodcut head- & tailpcs. 17.8 x 10.2 cm(7 x 4 in). Cropped. USGS Kunz Coll, GS 38-283; JSL.

Cont: 1/2tp; tp; dedic; tab cont; pl instructions; 21 chs; errata.

In the main, a straightforward translation but much enhanced by valuable footnotes, many extended, and with pertinent references to the literature in which amplifying remarks on topics mentioned by Collini may be found. Johann Samuel Schröter(1735-18O8), Lutheran minister, and famed German mineralogist & conchologist, provided the commentary. In about 1763 he was appointed inspector in the cabinet of natural history at Weimar. In addition to his present contribution he wrote numerous large works on mineralogy and conchology, several of which are described under his name below. *Biogr Univ*, 41, p 246; Pogg, 2, 846. A very rare work, even rarer than the French version. According to K T Reidenbach, 1996, p 188, this edition was reprinted by the Ortsgruppe Idar des Vereins für Mosel, Hochwald und Hunsrücke, Idar, 1921; not seen.

1414. COLLINS, A T Colour centres in diamond. *J Gemm*, 18, 1, 1982, p 37-75, 19 fig, 34 ref.

1415. COLLON, DOMINIQUE

The Alalakh Cylinder Seals | A new catalogue of the actual seals | excavated by Sir Leonard Woolley at | Tell Atchana, and from neighbouring | sites on the Syrian-Turkish border | Dominique Collon | BAR International Series 132 | 1982 [Oxford: British Archaeological Reports]

Edgestapled: [1], [1 blank], [2], iv, 132 p + [16]pls f bearing 120 seal impression photos + 120 line drawings of seal designs + [2 blank]p; 6 text figs & 120 unnumb text figs. Thick red print wrap. 29.5 x 20.9 cm (11 5/8 x 8 1/8 in). Cut. £ 9.00. ISBN 0 86054 161 4; JSL.

Cont: blank f(small cupid); tp; publ data; tab cont; fig list; ackn; introd; tables & lists; biblio(p 12, 136 entries); more lists; catalog; pls; blank f. As in other BAR works, end leaves are of a new long-fiber plastic paper which is extremely difficult to tear.

Describes seals from Alalakh between Antioch and Aleppo found by Sir Charles Leonard Woolley(1880-1960), famous Britsh archeologist, best known for his excavations at Ur, the legendary home of Abraham. The bibliography is important.

COLLOT, LOUIS MARIE FRANÇOIS(1846-1915)

Fr physicist, geologist; DSc 1880; taught geol at Dijon 1887; apptd conservator of the nat hist mus of Dijon. *Dict Biogr Fr*, 9, 309.

1416. -----1896

Le Diamant | [orn rule] | Conférence | faite sous les Auspices de la Société des Amis de l'Université de Dijon | Le 15 Janvier 1896 | Par M.Collot | Professeur à la Faculté des Sciences | [orn] | Dijon | Imprimerie Du Commerce Et De L'Industrie, J.Berthoud | 15, Rue Bossuet, 15 | [rule] | 1896. [title from wrap cover] [JSL]

8°: 13, [3 blank]p; pale green wrap. 22.3 x 14.7 cm(8 3/4 x 5 3/4 in).

Popular address on the diamond: physical, chemical properties, uses, valuation, sources, matrix rock, synthesis, the last giving a historical summary of the attempts including Hannay and Moisson. GS 34-765, Kunz Coll.

1417. -----1899

Le Corindon | D'Après T.-H.Holland | du Comité géologique de l'Inde, | Par | M.Collot | Professeur de Géologie a l'Université de Dijon. | [logo] | Dijon | Imprimerie Darantiere | 65, rue Chabot-Charny, 65 | [rule] | 1899.

8°: 19, [1 blank]p; pale gray print wrap. 22.6 x 14 cm(8 7/8 x 5 1/2 in). Uncut. JSL. Extracted: *Mém de l'Acad Dijon*, 8, 4th ser.

Brief description of corundum, including gem varieties, and based upon T H Holland's *A Manual of the Economic Geology of India*, pt 1, 1898, which see. Topics: early history of the gems, properties, occurrences, uses, gem cutting, valuations & prices.

1418. COLOMBIAN SOCIETY OF PETROLEM GEOLOGISTS AND GEOPHYSICISTS

Colombian Society |...[3 lines] ...|Second Annual Field Conference | Cundinimarca-Boyaca | Muzo Emerald Mines | 1961 | [orn sketch map of excursion route in green & brown] | March 25-26, 1961 [Bogotá]

Green plastic spiral hinge; single sheets: [3], vi, A-1-8, B-1, C-1-20, [1]f(altogether 33 leaves); fold geol cross-sect sketches of strata; 2 sk maps; sk of a Muzo scene; 5 cross-sect sketches; tailpc sk of the "Crown of the Andes," and fold geol map of route(120 x 57 cm) in back cover pocket. 28.1 x 21.5 cm(11 x 8 1/2 in). Cut. USA $3.00 or Ps 20.00. JSL.

Cont: tab cont; index to Muzo mine; ill list; officers; dedic; ackn; program; road log; text; purchasing data. In some copies the Muzo mine index is misbound.

Principally of interest to the gemologist is the Muzo mine portion, pages C-1 to C-20, covering succinctly the principal features and including brief remarks on emeralds as gems, description of the Muzo region, history of mining, geology, petrology, emeralds, mineralogy, emerald occurrences, genesis of the deposits, mining methods, marketing, economical considerations, and production statistics. The more important references appear in the bibliography but by no means all; the large folding map shows rather sketchily the geology along the route Bogotá northward to Muzo.

1419. COLUCCI-NUCCHELLI, PARIDE

Paride Colucci-Nucchelli | [rule] | Un | Vezzo Di Perle | [rule] | Storia Delle Perle, | Loro Formazione, Pesca, Commercio | E Imitazioni. | [dotted rule] | Volume Unico | [dotted rule] | Milano | Presso Giovanni Gnocchi Editore | [dash] | 1873 ["Scienza per Tutti"]

8°: 178, [1], [1 blank]p; white wrap, title in pink & black on cover in orn frame; book list back cover; spine title. 19 x 12.2 cm(7 1/2 x 4 3/4 in). uncut. Lire 8.50. USGS Kunz Coll, GS 34-588.

Cont: tp; publ data; dedic; text; tab cont; blank p.

A popular account of the pearl, its historical position as a precious object, celebrated pearls, natural history of the oyster, nature of pearls and their formation, colors & qualities, world fisheries, pearl in the Americas, freshwater pearls, commerce, imitations, and pearls in various European cities.

COLVIN, IAN DUNCAN(1877-1938)

Brit journalist, biographer, poet; stud Edinb U; to India, South Africa, etc on various newspaper assignments; wrote numerous works of a biographical/political nature and involving British colonial questions. DNB.

1420. -----1912

Cecil John Rhodes | 1853-1902 | By Ian D.Colvin | Author Of "Romance Of South Africa," Etc. | [logo] | London: T.C. & E.C.Jack | 67 Long Acre, W.C., And Edinburgh | New York: Dodge Publishing Co. [1912; "The People's Books," no 40]

8°: viiip + p 9-92 + [2advert]p; front portr sketch of Rhodes on an integral leaf but not counted in pag. Green cloth, title & decorations on cover; spine title. Dj, list of other series bks. 16.2 x 10.6 cm (6 3/8 x 4 1/4 in). Cut. USA $.25. JSL.

Brief biography; Basil Williams, 1967, stating "a slight but good sketch." Of special interest: Ch 2, the diamond diggings, p 12-16; Ch 3, Rhodes and Barnato, p 17-24, and Ch 7, the consolidation, p 43-6.

1421.-----1922

The | Life Of Jameson | By | Ian Colvin | In Two Volumes | Volume I[-II] | With Portraits | London | Edward Arnold And Co. | 1922 | [All rights reserved]

8°: Vol I: vii, [1 blank], 314, [2 blank]p; tip-in photograv pl & tissue front + 2 other pls; sketch map. Vol II: v, [1 blank], [1], [1 blank], 352 p + 16 advert p; tip-in photograv pl & tissue front; sketch map. Blue cloth, gold lett in box on spine. 22.3 x 13.8 cm(8 3/4 x 5 1/2 in). Fe untrimmed. JSL.

Almost entirely on political career of Leander Starr Jameson (1853-1917) but chs 2, 4 & 5, in first vol contain significant material on the diamond mines, Rhodes' relationships to same, and the consolidation of claims.

1422. COMITÉ DES SEMAINES ANVERSOISES DE PROPAGANDE Exposition Le Diamant. Salle des Fêtes de la Ville, 78, Meir. Catalogue Semaines anversoises de propagande 19 décembre 1936 - 3 Janvier 1937.

8°: 87, [1 blank p + [24] glossy f (first & last 2 f blank) bearing 27 photos printed recto only; bound-in. White & col wrap, cover title; publ logo back cover. 5 frs. Lists diamond-trade organisations, companies dealing in rough & cut diamonds, diamond-cutting machinery, and other services connected with the industry. This is followed by a brief history of the industry in Anvers(Antwerp), a list of historical documents and objects preserved in the city archives or in company or private files, brief notes on famous diamonds, biblio(p 78-87, 97 entries).

1423. COMMERCE JAPAN Pearls of Japan, a special number of *Commerce Japan*, Tokyo, 9, 1, 1958, 39, [1] p, many ill, gilt, col cover, 29.8 x 29.8 cm(11 3/4 x 8 1/4 in). JSL. Contains 8 arts on fashion in pearls, shapes & names of pearls, selection, handling, a pearl festival, directory of exporters, etc.

1424. COMMONWEALTH SECRETARIAT Diamonds. A chapter in *Non-Metallic Minerals*, a review of resources, production, trade... Compiled in the Commodities Division of the Commonwealth Secretariat, London, 1967, p 150-69.

CONCERNING PRECIOUS STONES, see ENGLISHWOMAN'S DOMESTIC MAGAZINE

1425. CONCI, CESARE & DE MICHELE, VINCENZO

Pietre Preziose | E Pietre Dure | 79 Disegni Eseguiti Dal Vero Da | Eva Hülsmann | Testo Di | Cesare Conci | E | Vincenzo De Michele | Del Museo Civico Di Storia Naturale Di Milano | Aldo Martello Editore | Milano [1965; "I Miracoli Della Natura"]

8°: 119, [1]p; 5 fig; 84 col text fig. Heavy plasticized paper wrap, col ill on cover; spine title; other bks back cover. 15.4 x 10.3 cm(6 x 4 in). Cut. JSL.

Cont: 1/2tp; tp; publ data; tab cont; fwd; introd; 8 chs; explan of col figs; species descriptions(with col fig); index; press note.

Elementary work on gemstones, emphasizing those found in Italy. Presents basic data on gemstone properties, origin, composition, cutting, imitations, and identification methods, while the main text consists of one-page descriptions accompanying the colored drawings of gemstones and including information on properties, compositions, localities, etc of the ordinary kinds but also such rarities as violane, vesuvianite, piemontite, and a "titanolivina" which is a member of the humite group. The final colored illustration depicts other Italian stones as apatite, olivine,

rose quartz and serpentine. Color plates somewhat vividly colored but on the whole are accurate renditions and recognizably reproduce their natural counterparts.

CONFEDERATION INTERNATIONALE DE LA BIJOUTERIE... See CIBJO

CONFIGLIACHI, L, see HAÜY, R J, 1819

1426. CONLEY, JAMES F

North Carolina | Department Of Conservation And Development |...| Division Of Mineral Resources |...| Information Circular 16 | Mineral Localities Of | North Carolina | By | James F.Conley | [crossed hammers] | Raleigh | 1958 [title in ruled frame]

Edgestapled: 83 p; 10 photo pls; 20 sk maps includ in pag. Pale gray printed wrap. 27.6 x 21.5 cm(11 x 8 1/2 in). Cut. JSL. GS 59-33.

Includes localities for emerald, beryl, hiddenite, smoky quartz, corundum, moonstone, amethyst, garnet, petrified wood, kyanite, agate, rose quartz, diamond, jasper, "leopardite," and unakite. Biblio p 78-9, 29 entries.

1427. -----1971, rev edit

North Carolina | Department Of Natural And Economic Resources |...| Office Of Earth Resources |...| Division Of Mineral Resources | Information Circular 16 | Mineral Localities Of | North Carolina |...| Raleigh | [logo] | Revised 1971 | O.F.Patterson, III | G.Robert Ganis

Cementb: [1], viii, 128 p; 10 photo pls; 49 sk maps includ in pag. Pale brown printed wrap. P size same. $2.00. JSL.

Some sites now omitted but others added, and all brought up to date with much more realistic treatment of what places can be visited gainfully. Still lays stress on gemstones.

1428. CONNAH, T H A prospectors guide to... [sic] opal in Western Queensland. Extract; Queensland Government Mining J, Jan 1966, v 67, no 771, p 23-32, 34-9. AUS $.20. "Compiled by T.H.Connah, M.Sc., Senior Geologist... from published and unpublished reports on the Opal areas..."

Centerstapled: 15, [1]p; doublep col sketch map; 3 figs. 27.4 x 21.2 cm(10 3/4 x 8 3/8 in). JSL.

History of discovery & mining, regional geology, type deposits, opal varieties, mining methods, detailed descriptions of the several districts and their mines with notes on local geology, mineralogy, and opal. Advice to travelers is appended. The map shows watercourses, roads, towns, and other cultural features with opal areas in green shading. Republ, with minor changes, but considerable changes in the map, in same journal, vol 72, no 838, Aug 1971, p 313-33, passim; another art in same journal, vol 68, no 792, Oct 1967, "A prospector's guide to opal in the Yowah-Eromanga area," p 453-57, col map, treats a smaller area within the above.

CONNOISSEUR CORONATION BOOK, see RAMSEY, L G G

CONNOR, P J, see AEPINUS, F U T, 1979

1429. CONOLLY, HAROLD JAMES CLUBE Report by H.J.C.Conolly, A.R.S.M., B.SC., Government Economic Geologist and Mineralogist, of the preliminary survey of the Mazaruni and Puruni diamond fields, British Guiana. March-December, 1925. Part I. Economic Geological Survey, Department of Science and Agriculture. Published by The Crown Agents For The Colonies, London. [1926?]

Edgesewn: [1], [1 blank], v, [1 blank], 103, [1 blank]p; front sketch map + 7 others, part col, including large fold map tip-in on inside back cover; 11 figs. Gray paper over bds, cloth spine. cover title. 33 x 20.7 cm(13 x 8 1/8 in). Cut. USGS GS 28-42; JSL.

Discusses economic considerations affecting exploitation of deposits, general geology, alluvial deposits, minerals in same, diamonds and gold, notes on origin & history of diamondiferous gravels, as well as a history of the fields. Large fold map, 78 x 86 cm(30 x 34 in) of rock outcrops and other geological features, plus physiography, rivers, prospects & mines along a stretch of the Mazaruni that has been most productive.

1430. CONRADT, OTTO(1898-)

Otto Conradt | Das | Tanzspiel | Der | Edelsteine | [rule] | Die | Edelstein | Gedichte | MDCCCCL [1950; Idar-Oberstein, priv publ]

Edgestapled: 71 p; heavy pale tan covers, with folded-over dj bearing cover title in red-rule frame. 20.3 x 13 cm(8 x 5 1/8 in). Cut. JSL.

A series of poems on gemstones in the first part, and also upon the cutters, all expressing the author's deep love for the gem materials which are so intermeshed with the livelihood of the residents in the Idar-Oberstein gem-cutting center of Germany. The second part, a play, is an amusing rhymed discussion among gemstone characters in which their virtues and faults are elucidated but all ultimately agreeing that they would be nothing without the intercession of the lapidary. Conradt, born into an old-established family of lapidaries, wrote two previous collections of poems, among which were poems on the lore of gemstones, namely *Tor auf* and *Erde an des Himmels Munde*. All were apparently printed in very limited number and are now rare.

1431. CONSIGLIO, ANTONIO

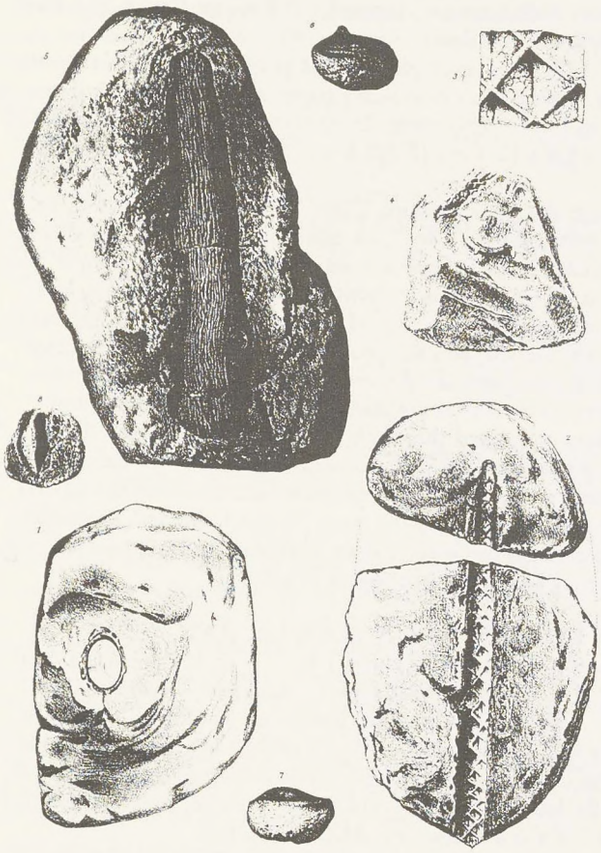
A Technical | Guide To The Rational Use | of Marble | [Roma: Associazione dell'Industria Marmifera Italiana e delle Industrie Affini and Carrara: Unione Generale degli Industriali Apuani del Marmo ed Affini, 1972]

8°: x, 222, [3], [1 blank]p; 140 col photos of polished stones; 52 fig; 7 unnumb fig. Dull green cloth-type paper bds, white title on cover & spine. 29.7 x 21.2 cm(11 3/4 x 8 3/8 in). Cut. JSL.

Brief outline of the Italian ornamental stone industry, including methods of quarrying and processing. Part 1 uses of stone in ornament, surfacing, staircases, etc, with recommended methods for attaching. Part 2 descriptions and pictures of 149 stones(including granite, serpentine, etc) With sources, geological notes, principal uses, etc. Attractive.

1432. CONSOLIDATED DIAMOND MINES OF SOUTH-WEST AFRICA LTD Diamonds from the desert. Kimberley, 1956, 82 p. Diamond mining in coastal desert region. Not seen.

1433. -----1965(?) The richest sands on earth. Inside back wrap: "Produced by the Public Relations Department, Anglo



1439. Plate 4 from Conwentz's investigation of silicified woods from Sweden

American Corporation, on behalf of Consolidated Diamond Mines of South-West Africa Limited." Centerstapled: [32]p, includes wraps; 38 ill(some col); col wrap. 23.2 x 22.8 cm(9 3/8 x 9 in). Cut. JSL. Valuable historical summary on discovery, nature, and exploitation of the diamondiferous alluvial deposits which extend from Oranjemund north to Affenrücken; details on geology, methods of mining & recovery, the town of Oranjemund, social/housing problems.

1434. CONTENAU, GEORGES(1877-)

La Glyptique | Syro-Hittite | Par | G.Contenau | docteur ès-lettres | Ouvrage illustré de 48 planches hors texte | [orn] | Paris 1922 | Librairie Orientaliste | Paul Geuthner | 13, Rue Jacob, VIe

"Haut-Commissariat De La République Française En Syrie Et Au Liban, Service Des Antiquités Et Des Beaux-Arts, Bibliothèque Archéologique Et Historique, Tome II."

8°: XII, 217, [1 blank]p + 362 line drawings, recto, on 48 pls(ff) bound-in. Print wrap? This copy rebound, cropped. 24 x 15.7 cm(9 1/2 x 6 1/8 in). JSL.

Cont: ser 1/2tp; ser tp; tp; pref; abbrev & biblio(p VII-XII, 110 entries); 6 chs; concl; tab; index; refs to illust; chronology; tab cont; blank p; pls.

On the engraved cylinders and seals of Syro-Hittites of ancient Near-East, commencing with discussion of forms and uses, sources of materials used in this study(specimens, publications, impressions), deductions of the character and culture as derived from the seals, including costumes, arms, and deities, and descriptions and comments on various phases of the civilization and the place of their glyptic art in oriental art in general.

CONWENTZ, HUGO WILHELM (1855-1922)

Ger naturalist, spec in botany/paleobotany; stud Breslau U & Göttingen U; dir W Prussian Mus in Danzig. Obit, J Holmboe, *Naturen*, Bergen, 46, 1922, p 202-6, portr.

1435. -----1876 Ueber die versteinten Hölzer aus dem norddeutschen Diluvium... Breslauer Genossenschafts-Buchdruckerei, 1876, 33, [1] p. 22 cm. Inaug dissert U Breslau; with vita. Not seen: LC 6-22498.

1436. -----1885 Sobre algunos arboles fosiles del Rio Negro. *Boletin de la Academia Nacional de Ciencias en Cordóba*, Argentina,vol 8, entrega 4, Buenos Aires, p 435-56. Not seen.

1437. -----1886 Die Flora des Bernsteins. Bd.2, Die Angiospermen des Bernsteins. Danzig, 1886. 140 p. Not seen.

1438. -----1890

Monographie | Der | Baltischen Bernsteinbäume. | [orn] | Vergleichende Untersuchungen | Über Die Vegetationsorgane Und Bluten, Sowie Über Das Harz |und Die Krankheiten Der Baltischen Bernsteinbäume | Von | H.Conwentz. | [orn] | Mit Achtsehn Lithographischen Tafeln in Farbendruck. | [orn] | Mit Unterstützung Des Westpreussichen Provinzial-Landtages Herausgegeben Von Der | Naturforschenden Gesellschaft Zu Danzig. | [taper rule] | Danzig. | Commissions-Verlag Von Wilhelm Engelmann in Leipzig. | 1890.

4°: [8], 151, [1]p; 18 col litho pls, each preceded by explan f. 32.8 x 26.2 cm(13 x 10 3/8 in). Cropped. JSL.

Cont: 1/2tp; tp; fwd; tab cont; introd; 3 sections; concl; pls.

A work famous for introducing the concept that injuries to the amber-producing trees must have accounted for the very large quantities of amber found in the Baltic deposits. The introduction furnishes basic data on amber itself, followed by notes on geology, nomenclature, the trees and their probable age, and notes on methods used to prepare thin-sections for microscopic studies. The first text section treats the reproductive organs of the flowers and associated remains, while the second section describes the occurrence of amber within vegetable remains and also in its "free" state. The last section discusses the presumed sickness of the amber-producing trees with advancement of probable causes as physical damage, parasitism, attacks by animals and insects, etc, all elucidated to support the author's theme that large flows of resin could have been stimulated only by injuries. The plates are especially fine, being exquisitely detailed and subtly shaded where needed, and with magnifications indicated. Pl XV is particularly commendable because it shows, life-size, a number of specimens of raw amber associated with wood remnants or alone.

1439. -----1892 Untersuchungen über fossile Hölzer Schwedens. *Kongl Svenska Vet-Akad Handl*, 24, 13, Stockholm, 99 p, 11 pls(10 col). 30.3 x 24.2 cm (11 7/8 x 9 1/2 in). Includes silicified specimens; many fine col illust of structure. JSL. GS 7-1448.

1440. -----1896

With the Author's Best Compliments [underlined] | H.Conwentz: | On English Amber and Amber Generally. | An Address Delivered In Section K. Of The British | Association For The Advancement Of | Science. Ipswich Meeting, 1895. | With Two Plates And Two Figures. | Reprinted from "Natural Science," Vol.IX, Nos.54 and 55, | August and September, 1896. | London, 1896: | Page & Pratt, Limited, 22 St.Andrew Street. [Cover title]

Centersewn: p 99-167, 2 glossy photo pls tip-in; 2 fig. Pale gray wrap, title on cover. 24.9 x 15.5 cm(9 3/4 x 6 1/8 in). Cut. USGS Kunz Coll, GS 34-973.

Describes the varieties of amber of the Baltic region as gedanite, glessite and succinite, the occurrences in England, local English amber industries, possible sources in the local strata, and the vegetable origin of amber and evidence for same. So far as I know, this is still the only work on English amber that gives more than a few brief remarks on same.

CONWENTZ, H W, see GOEPPERT, J H R & MENGE, A

COOK, DAVID, see SCALISI, P & COOK, D

1441. COOKE, H B S The development of the Vaal River and its deposits. *Trans Proc Geol Soc S Afr*, 49, 1947, p 243-62. Alluvial diamonds; not seen.

COOKE, M C, see LOWN, C & BOOTH, H

COOMANS, H E, see SBORNIK NARODNIHO MUZEA

1442. COOMARASWAMY, A K General account of gemming in Ceylon. *Ceylon Admin Rep Miner Survey*, 1904, part 4, p E1-E2l. Not seen.

1443. -----1905 The rocks and minerals of Ceylon. By A.K.Coomaraswamy, B.Sc., Director, Mineralogical Survey of Ceylon. Print wrap, edgestapled, 17, [1 blank]p; 4 line drawings, 3 photos. 24.3 x 15.5 cm(9 1/2 x 6 1/8 in). Cut. Rock groups, mineral occurrences, type deposits, rock of secondary origin, fossils, recent sedimentary rocks, gems and gem mining, a list of gemstones, and the arrangements in the mineral gallery, Colombo Museum. Not seen. Some sources state originally published in *Spolia Zeylanica*, 3, part 9, Mar 1905, p 50-66, and in Colombo Museum, *Guide to the Collections*, 1905.

1444. COOMBS, D S Ferriferous orthoclase from Madagascar. *Min Mag*, 30, 226, 1954, p 409-27, 4 fig, 5 tab. Also separate in gray print wrap.JSL. Studies the gem-quality crystals from a pegmatite deposit at Itrongay, near Fianarantsoa: chem composition, refractive indices, heat-treatment, optic axial angle.

1445. COOPER, CHARLES W Some of the precious stones of the Bible, with special reference to the High Priest's breastplate and the jasper of Rev.IV,3. *J Trans Victoria Inst or Phil Soc of Gt Brit*, 61, 1929; 60-74. Not seen.

1446. -----1924(?)

The Precious Stones | Of The Bible | With An Account Of | The Breastplate Of The High Priest | The Ephod And Urim And Thummim | By | Rev. Chas.W.Cooper, F.G.S. | [orn] | London: H.R.Allenson, Limited | 7 Racquet Court, 114 Fleet Street, E.C.4 [no date]

8°: 127, [l]p; tip-in glossy front pl of breastpl drawn by the author. Pale grayish-blue heavy paper wrap, title in orn frame on cover in brown; spine title. Inner flaps of wrap enclose supplied endp. 18.6 x 12.3 cm (7 3/8 x 4 7/8 in). Cut. LC 33-29250. JSL.

Cont: double-leaf endp; 1/2tp; pl; tp; publ data; pref; tab cont; text; biblio(p 126-7, 24 entries); index; double-leaf endp.

Excellent, much respected and referenced work. Cooper takes pains to cite numerous authorities, ancient and modern, who ventured opinions as to the identities of the stones in the breastplate, the Ephod, and the problematical Urim and Thummim. The first part generally discusses the subject but also provides remarks on nomenclature and symbolism of the stones and problems associated therewith, The second part treats the breastplate, while the third part discusses in much detail the twelve gemstones. The fourth part describes and discusses the Ephod while the last part does the same for the Urim and Thummim and is perhaps the best modern discussion of the possibility that these may have been gemstones in part.

1447. COOPER, LYN & COOPER, RAY

New Zealand | Gemstones | by | L. & R.Cooper | [logo] | A.H. & A.W.Reed | Wellington - Auckland - Sydney [1966]

8°: 125, [3 blank]p; 8 col photos on both sides of 2 tip-in glossy f; 6 sketch maps; 16 fig; 2 outline drawings(as keys to objects on the col pls). Bright green cloth-type paper bds; red metallic lett spine. Col dj, col photo; resume, vitas. 21.6 x 13.7 cm(8 1/2 x 5 3/8 in). Cut. AUS $3.75. JSL.

Cont: 1/2tp; tp; publ data; tcb cont; ill list; pref; 8 chs; gloss; 3 blank p.

How to begin in the hobby, where to find gemstones, lapidary work, jewelry making, all elementary, clearly written, but despite the title, most of the text is on lapidary and jewelry work; locality information only on p 28-39. Rev *J Gemm*, 13, 6, 1973, p 233; *Austral Gemm*, 68, Feb 1967, p 9; *Zs Dt Gemm Ges*, H 62, 1967/8, p 61.

1448. COOPER, WILLIAM

A Volcano Of Precious | Stone | [gilt cut of a volcano] | Antique | Mosaic Agate. | [rule] | Copyrighted By Wm.Cooper, 1888. | [orn rule] | 1888. | [rule] | Chopin & Cooper, Esperanza, | Old Mexico. [Esperanza, Oaxaca]

Entirely gilt cover title, enclosed in a gilt frame.

Centersewn: [1 blank]f+ 24 p +[1 blank]f; 3 wood engrav(2 fullp). Black, pebbled paper wrap, cover title; back plain. 22.2 x 14.5 cm(8 3/4 x 5 5/8 in). Cut. JSL.

Remarkably illustrated advertising brochure extolling the virtues of a breccia-like volcanic rock "found at the bottom of the crater in the Volcano Zempoaltepetl, by an Indian who had descended the crater in search of sulphur." Apparently the rock consisted of silica minerals and contained considerable apophyllite; it was suitable for tabletops and other large ornamental applications. The text includes a letter from the firm of Chopin & Cooper, other testimonial letters, a brief account of the Biblical gems, a history of precious stones, a general article on gemstones, and a history of volcanoes and earthquakes. Two of the cuts show scenes in Mexico while the third shows comparative heights of Mexican volcanoes. Very rare.

COPELAND, LAWRENCE L (1921-1977) & OTHERS

LLC b Chillicothe, Missouri; experienced in mining & mineral explor; att Colorado Sch Mines; US Air Force, WW II; stud geol U New Mex; joined staff Gemological Inst of Amer 1948.

1449. -----1960

The | Diamond | Dictionary | by | Lawrence L.Copeland | Course Editor | Richard T.Liddicoat, Jr. | Executive Director | Lester B.Benson,Jr. | Laboratories Director | Jeanne G.M.Martin | Publications Manager | G.Robert Crowningshield | Director, Eastern Division | of the | Gemological Institute Of America | GIA [Los Angeles, 1960]

12°: [2 blank], viii, [1], [1 blank], 317, [7 blank]p; front photo + 170 text photos, 85 line drawings; ch head- & tailpc orns. Black, leather grained cloth, gold title & diamond crystal on cover; gold title & cut diamond on spine. 21 x 14 cm(8 1/4 x 5 1/2 in). Cut. $8.75. LC 60-51947. JSL.

Cont: blank f; 1/2tp; photo; tp; publ data; tab cont; pref; text tp; dict; append; biblio(p 314-5, 31 entries); print data; 7 blank p.

Every aspect is covered with the terms liberally interspersed with excellent photographs of gems, places, mines, and persons, etc, and also clean line drawings of cutting styles and cut gems. The appendix contains instructions for use of comparison diamonds for quality determinations, sales and lecture aids for jewelers, a diagrammatic comparison of various color-grading schemes, line drawings of brilliant gems vs weights, a table of USA and British ring-sizes, services offered by GIA, and a biblio graphy of books, all in English. Impressive, important, and hitherto unmatched in respect to useful content, and the "first dictionary to be devoted to the diamond," (E Bruton, *The Gemmologist*, London, 30, 355, 1961, p 27-9).

1450. -----1977, 2nd edit by Robert A P Gaal

The | Diamond | Dictionary | Second Edition | by | Robert A.P.Gaal, Ph.D. | Research Scientist | First Edition By | Lawrence L. Copeland | Course Editor |...[4 lines in double column]...| Gemological Institute Of America [Santa Monica, 1977]

16°: [2 blank], vii, [1 blank], 342 p; front photo; several hundred figs(photos & line drawings). Dk blue leatherette cloth, gold title & cut gem on cover; gold spine title. 21 x 13.8 cm(8 1/4 x 5 1/2 in). Cut. $16.95. ISBN 0-87311-008-0. JSL.

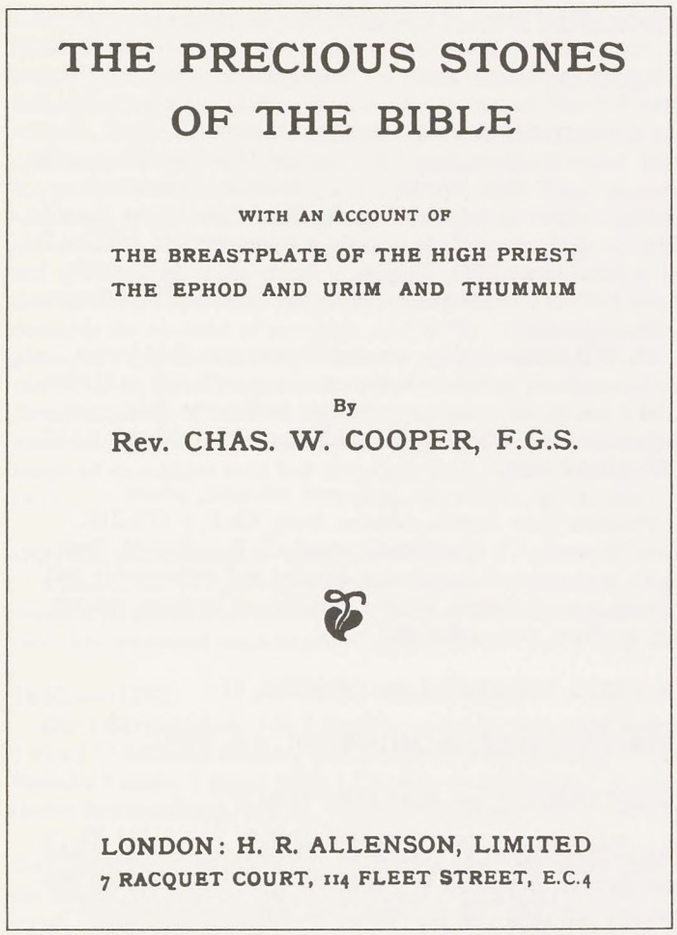
Cont: blank f; 1/2tp; front; tp; publ data; tab cont; prefs; text; append(biblio p 338-9, 42 entries).

Entirely reset; many new illustrations; many more entries and large number older entries recast or revised. Appendix augmented by tables of largest rough and largest cut diamonds and a diagram showing how to make a diamond paper. Rev INDIAQUA, 29, 1331, 2, p 139.

1451. -----1966

Diamonds... [sic] | Famous, Notable and Unique | by | Lawrence L. Copeland | Course Editor and Research Librarian | with | Artwork, Design and Photography | by | Jeanne G.M.Martin | Publications Manager | GIA | Published by | Gemological Institute Of America [Los Angeles, 1966]

8°: [2 blank], ix, [1 blank], 188 p; front photo + 103 ill(mainly photos); 9 col photos on 9 glossy f tip-ins, except one doubleleaf sewed in. Gray leatherette cloth, gold title cover & spine. 21 x 13.9 cm(8 1/4 x 5 1/2 in). Cut. $7.50. JSL.


THE PRECIOUS STONES
OF THE BIBLE

WITH AN ACCOUNT OF
THE BREASTPLATE OF THE HIGH PRIEST
THE EPHOD AND URIM AND THUMMIM

By
Rev. CHAS. W. COOPER, F.G.S.

LONDON: H. R. ALLENSON, LIMITED
7 RACQUET COURT, 114 FLEET STREET, E.C.4

1446. Titlepage of Cooper's much respected and quoted treatise on the Biblical lore of gemstones

Cont: blank f; 1/2tp; other publ bks; 1/2tp; front; tp; publ data; pref; text; append.

Definitive compilation of information on celebrated & remarkable diamonds from the Akbar Shah, alphabetically to the Yubileiny. Includes brief histories, features, weights, cutting styles, etc, some with photos or sketches of the real or replicated gem. A noteworthy feature is the inclusion of numerous gems of lesser fame about which it is difficult to find information in existing literature, and also gems from Siberian and American deposits which in many instances are neither large nor remarkable except for their provenances. Color photos of high quality: jewels mounted with famous diamonds. Rev *J Gemm*, 10, 4, 1966, p 137, "best compiled work of its kind."

1452. -----1974, 2nd Print, rev

Diamonds... |...[9 lines]...| Revised by | R.A.P.Gaal, Ph.D. | Research Scientist | and | Jim Taylor | Diamond Correspondence Course Supervisor | GIA |... [1974]

8°: [2 blank], ix, [1 blank], 204 p.; front photo + 118 ill(mainly photos); same col pls. Turquoise-blue leatherette. P size same. ISBN 0- 87311-005-6. JSL.

Same, except added preface for this edition and added section entitled "Recent and Additional Important Diamonds."

COPELAND, L L, see LIDDICOAT, R T, 1964

COQUILLE, H, see DE LA CHAU, G M

1453. CORDEMOY, HUBERT JACOB DE

H. Jacob De Cordemoy | Docteur En Médecine, Docteur Ès Sciences |... [3 lines..| [rule] | Les | Produits Coloniaux | D'Origine Animale | [rule] Avec 94 Figures Intercalées Dans Le Texte |... [summary of cont]...| Paris | Libraire J.-B.Bailliére Et Fils | Rue Hautefeuille, 19, près le Boulevard Saint-Germain. | [rule] | 1903 | Tous droits réservés [in the series Bibliothèque Coloniale]

8°: VIII, 396p + [l6]p adverts; 94 text cuts. Pale brown cloth, orn frame in yellow-brown on cover with title in black; similar orn & lett on spine; publ logo back cover. Pale green endp with publ adverts. 17.6 x 11.3 cm(6 7/8 x 4 1/2 in). Cut. USGS Kunz Coll.

Cont: 1/2tp; advert; tp; pref; text; tab cont; advert.

Products from French colonies: ivory, Ch 5, p 175-215; nacre & pearls, Ch 6, p 216-58; coral, Ch 7, p 259-82. Each article is worthy of study, being detailed and authoritative and treating natural history, sources, methods of recovery, processing, qualities, sizes, values,etc.

CORDUS, VALERIUS, see GESNER, C

CORMIER, G LE, see MOSSIKER, F S, 1963.

CORNARIUS, J, see MARBOD 1540

1454. CORNWALL, JOHN H Garnet - gem, rock-builder and abrasive. *Lap J*, 19, 6, p 650,652-8, 10 b&w & 8 col photos; no 7, p 750, 752-4, 756-8, 760, 5 b&w photos, 8 col photos. General but much on the almandine garnet of the Adirondacks, New York State.

CORREA, A B, see ARPHE DE VILLAFANE, 1976

1455. CORRENS, CARL WILHELM(1892-1980) Über die Diamantlagerstätten des Hochlandes von Diamantina, Minas Geraes, Brasilien. *Zs f prakt Geol*, Berlin, Jg 40, 1932, H 11, p 161-8, sketch map, 3 fig; H 12, p 177-81, 3 photos. JSL. Describes geology & formations, noting especially that most diamonds occur in a conglomerate that is obviously surficially formed; speculates on its possible derivation and on other rocks that may have a basic magmatic source.

CORSI, FAUSTINO(1771-1845)

B and d in Rome; mbr of Benedictine barefooted order of Camaldites; secty in Papal Ministry of Exterior. Pogg I, 481.

1456. -----1825

Catalogo Ragionato | D'Una Collezione | Die Pietre Di Decorazione | Formata E Posseduta In Roma | Dall'Avvocato | Faustino Corsi | [orn rule] | Roma | Da' Torchij Del Salviucci | 1825 | Con approvazione.

8°: 235, [1], [4 blank]p; fold engrav pl. Publ wrap. 21.7 x 14.8 cm (8 1/2 x 5 7/8 in). Uncut. USGS Libr, GS 33-211. JSL.

Cont: tp; pref; pl; catalog; index to authors(p 217-23, 126 entries); index to cont; index of stones(Greek & Latin); index of varieties; index to indexes; approb; 2 blank f.

In this first of three editions of this remarkable work, Corsi describes a collection of samples of building and ornamental stones, and some that are now considered gemstones. However, and more importantly, he provides a classification scheme in which few mistakes appear and it is apparent that he was aware of the basic compositional differences among them and of their origins. He apportions them among 16 classes embracing marbles and limestones, various sedimentary and metamorphic rocks, volcanic rocks, igneous rocks, and also others which are classed separately. Most attention is paid to the multitudinous marble & limestones in which Italy abounds, but by no means neglects such stones as calcite onyx, alabaster gypsum, serpentine, conglomerates, lapis lazuli, varieties of feldspar (under which he includes nephrites!), and a number of crystalline and crypto- crystalline varieties of quartz. References are made to ancient writers who mentioned these materials. He also notes sources of stones, and at times simple tests he used in their discrimination. One of the indexes pairs Greek and Latin names against Italian equivalents. See further comments below.

1457. -----1828 Delle pietre antiche, libri quattro di Faustino Corsi romano. Roma, 1828, 224 p; 22 1/2 cm. GS 34-369. Kunz Coll. Not seen. Agassiz II,114.

1458. -----1833, 2nd edit

Delle | Pietre Antiche | Trattato | Di Faustino Corsi Romano | Edizione Seconda | In Alcune Parti Corretta In Molta Accresciuta | Con L'Aggiunta | Dell' Indicazione E Descrizione Di Tutte Le Colonne | E Ragguardevoli Massi Di Pietre Antiche | Che Sono In Roma | [urn vignette] | Roma | Dalla Tipografia Salviucci | 1833

8°: 432 p. Publ tan paper print wrap: orn frame around front cover title; similar on spine; back cover with sale information. 23.4 x 15.3 cm(9 1/4 x 5 7/8 in). Uncut. Price Sc 1:35. JSL.

Cont: tp; pref; text in 3 bks; authorities cited; index of chs in first bk; index to rock types & gemstones in second bk; index of Latin names; index to Roman localities; alphabetical index to stones & gemstones in bk 3; recap of indexes & imprimatur.

C W King, indefatigable English student of engraved gems in his *Antique Gems and Rings*, 1872, vol 1, p 463, notes that this book "describes all the stones found in ancient remains, the common, the marbles, and the gems, identifying with much sagacity their present representatives... Parti iii. and iv., 'Delle Pietra fina, e Preziose,' contains much that is valuable to the dactyliogist." Indeed there is much more of value than suggested by King, the first book, for example, providing a chapter on early Roman use of domestic and imported stones, and other chapters on the regulations for quarrying & commerce and the transport of stones to ancient Rome, types of work and the tools used in shaping and finishing stones, sites in Rome where such work was accomplished, and other general remarks on many aspects of the early stone industry. Following chapters discuss true gemstones, or those used in personal adornments, and also rings and the stones set in them, collections of gemstones, decorative gemstones, methods of distinction, lapidary work, equipment for gem cutting, etc. This first book ends on p 65 and is followed by the second book, much larger, ending on p 292, in which descriptions are provided of stones used in construction, decoration, and in personal adornment, the last including quartz varieties, jades, lapis lazuli, aventurine, feldspars, and other more common gemstones but finishing with a section on

the "precious" stones as diamond, sapphire, ruby, emerald, aquamarine, chrysoberyl, topaz, zircon, amethyst, garnet, opal, and several more. The third book is a gazetteer of localities in Rome where buildings, colonnades, and other structures made from ancient stones may be seen. The valuable index of Latin names for stones and gemstones vs the current Italian is now enlarged. All parts of the book are fully referenced, the latter being collected on p 387-408 and comprising 722 citations.

1459. -----1845, 3rd edit

Delle | Pietre Antiche | Trattato | Di | Faustino Corsi Romano | Edizione Terza | Con Notabile Aggiunta Al Terzo Libro | In Cui Sono Indicate E Descritte Tutte Le Colonne Ed Alcuni | Massi Di Pietra Antiche Ragguardevoli Per Grandezza | O Per Rarita' Esistensi in Roma | [vignette, mason's tools] | Roma | Tipografia Di Gaetano Puccinelli | Piazza della Chiesa Nuova N.22 | 1845

8°: 448 p; engrav front portr of author, bound-in. Tan print paper wrap, orn frames enclosing title, etc. 23.5 x 15.7 cm(9 1/4 x 6 1/8 in). Uncut. Sc 1.40. LC 1-19948; Dewalque 119; JSL.

Cont: pl; tp; pref; text, etc as in 2nd edit.

Entirely reset; first 2 bks identical but 3rd bk of localities rewritten in many parts and enlarged.

CORSTORPHINE, G S, see HATCH, F H

CORTÈGE DES BIJOUX, see JUWEELENSTOET

1460. CORTELEZZI, JUANA Estudio sobre una resina fósil de la Républica Argentina. *Revista de la Faculdad de Quimica y Farmacia, Univ Nac de la Plata*, Buenos Aires, 5, pt 2a, 1928, p 25-63(p 1-41), 10 text fig. & El ambar de Magallanes, *ibid*, 6, pt 2a, 1930, p 33-41, 5 text fig on 3 pls. First finds of amber in Argentina, ie, in marine Lower Tertiary, Rio Santa Cruz, S Patagonia, with properties that differ from those of Baltic amber; plant inclusions. Second paper on 3 other finds in Patagonia

COSTA, E M DA, see MENDES DA COSTA, E

1461. COSTA DE MACEDO, JOAQUIN JOSÉ DA

Memoria | Sobre Os Vasos Murrhinos. | Por | Joaquin José da Costa de Macedo, | Do Conselho de Sua Magestade, Commendador da Ordem de Nossa Senhora da | Conceição de Villa Viçosa, e Official da Ordem Imperial do Cruzeiro: | Secretario perpetuo da Academia Real das Sciencias de Lisboa, e Socio de mui= | tas outras Academias e Sociedades Scientificas e Litterarias | da Europa e da America. | [woodcut coat-of-arms] | Lisboa | Na Typografia Da Mesma Academia. | [orn rule] | 1842.

2°: [4], 151, [1 blank]p; 3 hand-colored engrav pls(2 fold) bound-in. Plain green paper wrap. 31 x 31.7 cm(12 1/4 x 8 5/8 in). Uncut. JSL.

Cont: tp; blank p; errata; text; pl descriptions; blank p.; pls. In JSL copy, a presentation from author to Société Ethnologique, 2 blank f supplied before and after text. P. [1]: "Lida Na Sessão De 21 De Março De 1838."

A carefully researched monograph on the still-unresolved question of the identity of the material used in the "murrhine" vases of antiquity. The text opens with a lengthy translation into Portuguese of remarks on same by Millin & Bossi(1807), paralleled with the original French text in footnotes, in which they examine the question, citing Pliny's original vague statements, subsequent opinions, and a detailed examination of Pliny's Latin remarks. This translation ends on p 55. The observations and opinions of others are carried on to the end of the text and there is a particular examination of the problem by F W Thiersch, which see, published in *Abhandlungen der Philosophischen-Philologischen Classe der Königlich Bayerischen Akademie der Wissenschaften*, 1, München, 1835, p 443 ff. Costa De Macedo concludes that on the basis of the Plinian description, massive fluorite is probably the material of murrhine, and in the remarkably fine plates, strongly and carefully watercolored, several views of an obelisk made from fluorite in the Museum of the Portuguese Royal Academy of Sciences in Lisbon are given (Pl 1) and two views of vase (Pl 2). The third plate represents two cameo-fragments of an antique vase, but not made from fluorite. A rare work.

COTTA, BERNHARD VON(1808-1879)

B Eisenach, Ger; prof geol Bergakad Freiberg; wrote many treatises developing theories of ore deposition and rock formation; known for his theory that molten materials of volcanic rock cannot be dated. Pogg III, p 303-4.

1462.-----1832

Die | Dendrolithen, | in | Beziehung auf ihren inneren Bau; | von | C.Bernhard Cotta. | [rule] | [rule] | Mit zwanzig Steindrucktafeln. | [taper rule] | Dresden und Leipzig, | Arnoldische Buchhandlung. | 1832,

4°: IX, [1], 89, [1 blank]p; tip-in col front pl on pale tan thick paper & blank guard leaf + 19 other litho pls tip-in. Two pls labeled "A" and "B", others numbered I-XVIII; all pls with guard leaves. Pale purplish-gray paper over bds, elaborate pict frame on cover enclosing plant vignette; inner border of frame a leafed vine; back cover similar but vignette crossed geol hammers; spine rd-brown leather gilt with title. Blue-green endp. Originally in print wrap? 26.3 x 21.6 cm(10 1/4 x 8 1/2 in). Cut. JSL; Dewalque 2775.

Cont: front pl; tp; fwd; index & descript of pls; biblio(p IX, 5 entries); quot; text; errata; blank p. Agassiz II, 119. GS 10-333.

Important early work on recognition and classification of fossilized wood remains. L F Ward, *Sketch of Paleobotany*, 1885, p 410-11, states that it is a "work of special interest and value... a renewed attempt to classify systematically and describe scientifically the various kinds of fossil wood that had been discovered," and, "Cotta made a special study of the internal structure of all the trunks and stems in his collection, establishing new genera species." Most of the Specimens came from the collection of Cotta's father, H.Cotta(1763-1844), a noted German naturalist, and were cut and polished by lapidaries into thin sections amenable to study under the microscope, and heralding the beginning of the microscopic examination of petrified wood in order to determine fine structures and establish their botanical relationships. Cotta mentions that many specimens, like those shown upon the frontispiece plate, were being cut and polished into ornamental. objects.

1463. -----1850, 2nd edit, actually a reprint

Die | Dendrolithen | ... [3 lines] ...| Bernhard Cotta | [rule] | Zweite Ausgabe. | Mit zwanzig Steindrucktafeln. |

Leipzig [enclosed in elaborate scrollwork] | Arnoldische Buchhandlung. | 1850.

Same pag, ill; pink paper over bds, cover title in orn frame; similar back cover; spine title. 25.5 x 22 cm(10 1/8 x 8 5/8 in). Cut. Ae blue-spattered. V pale green endp. JSL. Reset title; else same. Agassiz II, 120.

COTTE, F, see DARBOUX,G, et al

1464. COTTON, L A The diamond deposits of Copeton, New South Wales. *Proc Linnean Soc NSW*, 1914, Sydney, vol 39, 1915, p 803-38, figs(geol sects), Pls 90-92(geol map). Not seen.

1465. COUCH, OSCAR

The | Benitoite | Story | [orn, a gem] | [geom design overprinted by:] By | Oscar Couch [priv publ, Arroyo Grande, Calif, 1961; title in blue & red]

Centerstapled: [3], 10p [actually [12]f, the pp bearing ill not counted in pag; final leaf blank except for copyright notice]; photo of author + 11 other photos and a crystal sketch. Thick, cream col wrap; col lett. 21.5 x 13.7 cm(8 1/2 x 5 3/8 in). Cut. Issued in white envelope with title & return address in blue. JSL.

Written to correct errors which he claims exist in previous accounts of the discovery and early exploitation of the benitoite (Dallas Gem Mine) in San Benito County, California. Couch is the son of James Marshall Couch (1857-1943), who actually discovered benitoite float while on a prospecting trip. Valuable background data, apparently authentic.

1466. -----1972, rev reprint. Title f and last f omitted; Pale blue print wrap, red title on cover which now reads "The | Benitoite | Story | [gem] | [in box:] Rarest Gem on Earth! | [geom design overprinted:] | By | Oscar Couch.

1467. COULSON, C A & KEARSLEY, MARY J Colour centres in irradiated diamonds. *I. Proc Roy Soc London*, 241, A, 1957, p 433-54, 5 fig. Lattice vacancies and electronic transitions responsible for color. Not seen.

1468. COUPIN, HENRI

Henri Coupin | Docteur ès sciences | Lauréat de l'Institut | [rule] | Promenade scientifique | au Pays des Frivolités | Étude Pittoresque Des Frivolités Fournies Par La Nature | à la Mode, à la Parure et au Luxe | ... [4 line quot]... | Théophile Gautier. | [rule] | Paris | Vuibert & Nony, Éditeurs | 63, Boulevard Saint-Germain, 63 | [rule] | 1906] [title in red & black]

8°: VIII, 373, [1 blank], [1], [1 blank]p; front wood engrav pl & tissue; 238 fig. Dk maroon leather-like cloth, gold rules, gold title front cover; gold frame, title on spine. Pale blue-gray endp. 27.3 x 19 cm (10 3/4 x 7 1/2 in). Cut. Teg. Front wrap bound-in. JSL.

Cont: wrap; blank p; other author bks; 1/2tp; pl; tp; introd; 12 chs; index; blank p; tab cont; blank p.

Handsomely illustrated stroll among the objects and products of luxury obtained from the kingdoms of nature, with much space devoted to gemstones and ornamental stones, also pearl, nacre, ivory, etc., as well as to the trophies of the chase, bird plumage, flowers and plants, and perfumes. The first chapter is on gemstones, p 1-58, with most space given to diamond, it natural history, properties, cutting, styles of cut, famous examples, etc, followed by shorter remarks on jet, varieties of quartz, opal, corundum, topaz, garnet, and others, and finishing with lists of gemstones whose initials can be used to express names or sentiments. Ch 2, p 59-84, is on saltwater pearls & nacre, while Ch 3, p 85-90, treats the many uses of nacre. Ch 4, p 91-122, is on coral, Ch 5, p 123-51, on ivory, Ch 6, p 152-59, is on artificial gems and, curiously, discusses insects used in jewelry in lieu of gems, while Ch 7, p 160-8, treats tortoiseshell and its uses. The work is a popular, interesting assemblage of information, none of it new. I have never seen any reference to this work in gemology texts.

COUREL, H, see MELY, F et al

COUTANCE, A G A, see JANNETAZ, P M E

1469. COX, JACK R

So You Want to Cut | Gem Stones! | by Jack R.Cox | [2 photos] | Covington Lapidary Eng.Corp. | Redlands, California [1963; cover is tp] Centerstapled: 19 p, 20 fig(mostly photos). Bright yellow wrap. 19.8 x 13.7 cm(7 3/4 x 5 3/8 in). Cut. $.75. JSL. Instructions on use of company lapidary machinery. A reprint, slightly larger in size, issued as "2nd Edit."

1470. -----1970

A Gem Cutter's Handbook | Cabochon | Cutting | [col sketch] | By Jack R.Cox [from wrap; another title inside wrap: "A Gem Cutters Handbook... By Jack R.Cox And the Staff of Gems and Minerals Magazine...1970... Published By Gembooks, Mentone, California 92359."] Centerstapled: 64 p, 248 fig (mostly photos). 21.7 x 14 cm(8 1/2 x 5 1/2 iIl). Cut. $2.00. JSL. ISBN 910652-12-0. Adapted from a series of articles from *Gems and Minerals Magazine*. Concise, clear, useful.

1471. -----1970

A Gem Cutter's Handbook | Specialized | Gem Cutting | [sketch] | By Jack R.Cox [from wrap; another title inside wrap: "A Gem Cutters Handbook By Jack R.Cox And Staff of Gems and Minerals Magazine... 1970... Published By Gembooks, Mentone, California 92359."] Centerstapled: 64 p, ca 160 fig. 21.6 x 14 cm(8 1/2 x 5 1/2 in). Cut. $2.00. ISBN 910652-13-9. JSL. Also adapted from articles in the magazine; special techniques in slabbing, flatting, drilling, sphere making, tumbling & mounting baroque gems, and use of diamond as abrasive and polishing agent.

1472. -----1971

A Gem Cutter's Handbook | Advanced | Cabochon | Cutting | By Jack R. Cox | [sketch] | Assembled Stones | Special Shapes | Star Stones | Cat's-Eyes | Opal [from wrap; inside wrap: "A Gem Cutters Handbook... By Jack R. Cox And The Staff of Gems and Minerals Magazine... 1971... published By Gembooks, Mentone, California 92359." Centerstapled: 64 p, ca 200 fig. 21.6 x 14 cm(8 1/2 x 5 1/2 in). Cut. $2.00. ISBN 910652-14-7. JSL. As before, adapted from articles in the magazine.

1473. COX, KEITH W California abalones, family Haliotidae. *Resources Agency of California, Department of Fish and Game, Fish Bull* 118, 1962, 133 p, front photo, 61 fig, 16 col fig of

exterior & interior views of abalones, printed betw p 29-43 and includ in pag. Gray print wrap. 23 x 15 cm(9 x 6 in). JSL. Natural history, esp of species of California/Baja California coastal waters; fisheries, commerce, research,regulations, biblio 144 entries, including some in 16th century. Shells extensively employed for decorative jewelry, etc.

1474. COX, WARREN E

Chinese Ivory | Sculpture | By Warren E.Cox | Author Of | The Book of Pottery and Porcelain |[carving photo] | Bonanza Books | New York

P [iv]: "Copyright... 1946 By Crown Publishers... This edition published by Bonanza Books a division of Crown Publishers, Inc."

8°: 112, [6], [2 blank]p; 16 fig; 119 photos on 48 integral text pls. Brown-maroon paper bds; dk red, unfin cloth over spine & gold lett. Col dj; resume. 33.6 x 25.1 cm(13 1/4 x 9 7/8 in). Cut. JSL.

Cont: 1/2tp; tp; publ data; dedic; tab cont; text ill list; pls list; introd; 7 chs; index; blank f.

The author claims that this is the only modern book to cover the subject thoroughly and that "the sophisticated savants of our day have largely neglected the art of carved ivory in China," which statements verge on the ridiculous, in view of the existence of the massive tomes as Kunz's *Ivory and the Elephant*, Williamson's *The Book of Ivory*, and Maskell's *Ivories*. Despite these self-serving statements, Cox has put together a useful work which covers types of ivory, elephant & ancestors, properties of African ivory, early history of ivory in China, and later periods of working in ivory in that country, with information derived from Laufer, who is acknowledged as a source. There is an excellent section treating symbols in Chinese carvings and identification of deities or revered persons of Chinese folklore. The last chapter describes the working and coloring of ivory as practised in China and is illustrated with photographs borrowed from Arthur de Carle Sowerby, a long-time resident and student of art and culture in China.

1475. CRAFTOOL PRESS Lapidary techniques. Harbor City, California, 1971. 46 p. col ill. $2.00. Rev *J Gemm* 13, 5, 1973, p 191. Not seen.

1476. CRAIG, DENNIS B & PARKES, BRIAN

Drama In diamonds | The story of the Oppenheimer Jewel Theft | With 8 pages of half-tone illustrations | by | Dennis B.Craig | and | Brian Parkes | R.Beerman Publishers | Cape Town [1956]

16°: 175, [1]p; 14 photos on 4 bound-In glossy f & includ In pag. Pale gray-blue paper bds; black spine title. Dj? 21.7 x 14 cm(8 1/2 x 5 1/2 in). Cut. JSL.

Cont: 1/2tp; tp; publ data; deic; ackn; introd. 19 chs.

Lively account of the theft of over £ 200,000 worth of jewels of Bridget Denison Oppenheimer from her residence in Parktown suburb of Johannesburg, Dec 5, 1955. Being the wife of Sir Ernest, the diamond magnate, it attracted a great deal of notice in the media. Contains some interesting historical details on the rise of Oppenheimer to fame and fortune.

1477. -----1957, London

Drama in Diamonds | The story of the Oppenheimer jewel theft | [taper rule] | Dennis B.Craig | & Brian Parkes | [logo] | W.H.Allen | London | 1957

8°: 159, [1]p; 13 photos on 4 glossy f bound-in. Dk maroon cloth, dec title, gilt, on spine. Black dj; col title; flap resume, authors portraits. 21.6 x 14 cm(8 1/2 x 5 1/2 in). Cut. 12 s 6d net. JSL. Entirely reset; ill not includ in pag; added postscript.

1478. -----1957, New York

Drama in | Diamonds | [3 orns] | The story of the Oppenheimer jewel theft | Dennis B.Craig & Brian Parkes | Farrar, Straus And Cudahy · New York [1957]

16°: 224 p; no ill. Bright green cloth, gold lett & rules on spine; col dj, resume. Pale gray endp. 20.2 x 13.5 cm(8 x 5 1/4 in). Cut. Te stained dull green. $3.50. LC 57-8786. JSL. Americanized spellings, usages, money symbols, etc.

1479. CRANBROOK INSTITUTE OF SCIENCE Opal Issue. *Cranbrook Institute of Science News Letter* Oct 1956, 26, 2, p 18-31, 4 fig. Centerstapled: heavy glossy col wrap, photo of opal on covers; cover title. Pag begins inside front cover and ends inside back cover. 20 x 12.7 cm(7 7/8 x 5 in). Cut. JSL. General information by C B Slawson; Australian opal fields; types of opal, color, cause of color, notes on Cranbrook opal specimens. A revision issued later but undated, with "Opals" on front cover. Centerstapled, 15, [1]p, includ covers; 6 fig; 3 col photos on cover. JSL.

1480. CRANDALL, RODERIC Notes on the geology of the diamond region of Bahia, Brazil. *Econ Geol*, 14, 3, 1919, p 220-44, 14 fig(map & sects); also issued see in print wrap. JSL. Geology of the highland or "chapada" of Bahia; productive diamond mining alluvials, their comparative wealth in diamonds, esp carbonados. Sketch map of region, with cross-sections of formations at various points.

CRASSIER, GUILLAUME PASCAL, Baron DE

Counselor to Bishop and Prince of Liège, Belgium; "distinguished for his historical researches and refined taste in the arts and relics of antiquity;" publ works on numismatics and history. *Biogr Univ* 10, p 190-1, sans vital dates.

1481. -----1740

Descriptio | Brevis | Gemmarum | Quae In Museo | Guil, S.R.J.L. | Baronis De Crassier, | Celsissimi Episcopi ac Principis | Leodiensis in Camera Rationa- | ria Consiliarii, &c. asservantur. | [woodcut orn] | Leodii, | Typis Everardi Kints, Bibliopolae, nec- | non Suae Celsitudinis Typographi. | [rule] | M.DCC.XL. [Liège, 1740]

4°: [2 blank], [6], 63, [1 blank]p; $*^4$, A-H^4; 13 engrav text figs of gems; 1 engrav length scale; ch orns. 19.5 x 15.3 cm(7 5/8 x 6 in). Cut. BM(NH); USGS Kunz Coll, GS 33-284; JSL.

Cont: blank f; tp; pref; list of fig with length scale & erratum; text; blank p.

Catalogs the collection of several hundred engraved gems assembled by Baron Crassier with the text apparently written by himself although not so stated. Gives names of subjects, size, if mounted or unmounted, and references to other publications in which the same or similar gems are depicted. The collection is divided into three parts: engraved gems carved without bases, or "protomae gemmae missis basibus," hence in-the-round small sculptures, cameos, and the last intaglios. The "tabulae" referred to in the text are apparently table cases or cabinets in which the pieces were stored. Mariette, *Traité pierres gravées*, 1, p 340, 455,

calls the work "plus ample & plus circonstanciée," and remarking on the generally good quality of the plates but noting that they "no doubt represent the most distinguished pieces" in the collection.

1482. CRANFORD, M MAC DERMOT

Peeps Into The | Psychic World | The Occult Influence Of Jewels | And Many Other Things | By | M. Mac Dermot Crawford | Author of | "The Sailor Whom England Feared" | "The Wife Of Lafayette," Etc. | London | The Eveleigh Nash Company | Limited | 1916

8°: [7], [1 blank], 206, [2]p; Dk red cloth, black cover title in frame; gold spine title. 18.8 x 12.5 cm(7 3/8 x 4 7/8 in). Fe part uncut; be untrimmed. JSL.

Cont: 1/2tp; tp; pref; tab cont; 10 chs; publ data.

The first chapter, p 1-46, presents a number of entertaining stories on the presumed occult powers of gemstones in connection with good and bad fortune befalling individuals or events. The first story is on Hermione's opal from Sir Walter Scott's *Anne of Geierstein*. In his preface, Crawford assures us that these stories "may claim one merit: that of being true, most of them having been related to me by those whose actual experiences they are."

1483. CRAWFORD, WILLIAM P & JOHNSON, FRANK

Turquoise deposits of Courtland, Arizona. *Econ Geol.*, 32, 1937, p 511-23, 2 fig. JSL. Historical background of turquoise use by native Indians of SW USA, then local geology, deposits, mining, and marketing.

1484. CREUTZ, R Hildegard von Bingen und Marbodus von Rennes(1035-1123) über die Heilkraft der Edelsteine. *Studien und Mitteilungen zur Geschichte des Benedikter-Ordens* 49, NF 18, 1931, p 291-307. Not seen.

CREUZER, GEORG FRIEDRICH(1771-1858)

B Marburg, Ger; prof theology & ancient hist Heidelberg U 1804-48; apptd privy councillor to Grand Duke of Baden 1826; historian, antiquary, author of numerous treatises.

1485. -----1834

Zur | Gemmenkunde; | Antike Geschnittenen Steine | Vom | Grabmahl | Der | Heiligen Elisabeth | In Der | Nach Ihr Genannten Kirche Au Marburg | In Kur-Hessen; | Archäologische Abhandlung | Von | Friedrich Creuzer, | Doctor Der Theologie Und Philosophie, |... [17 lines of positions & memberships]...| Mit Kupfern | [taper rule] | Leipzig Und Darmstadt, | Druck Und Verlag Von Carl Wilhelm Leske. | 1834.

8°: [3], [1 blank], 212, [1]p; front engrav view of church, tip-in + 4 other engrav pls(Pl 2 tip-in at p [20], others at end of text). 21.6 x 13.5 cm(8 1/2 x 5 3/8 in). Cut. USGS Kunz Coll, GS 34-668. JSL.

Cont: pl; tp; quot; dedic; fwd; text; notes; corr & addenda; pls explan; tab cont; pls.

Describes engraved gems ornamenting the reliquary of Countess Elizabeth of Hungary(1207-1231), Saint, in the church named after her in Marburg, Germany. Creuzer also describes the reliquary itself, which is additionally ornamented with pearls and gems, the church building, and the casts made from the gems, shown on the engraved plates at end of text, 35 in all. Plate 2 shows a side view of the sarcophagus. The major text is devoted to descriptions of the gems, in much detail, with notes and comments, and references to other works that treat the sarcophagus and reliquary. The lengthy foreword discusses the etymology of the word "cameo," followed by a review of the antiquity of the gem engraving art, falsifications and unreliability of signatures on gems as evidence of authenticity, and other topics, including quotations from other writers on engraved gems in general. The collection is mentioned by Furtwängler, *Die antiken Gemmen*, 3, p 429- 30, "mostly stolen and preserved only as casts;" King, *Antique Gems and Rings*, 1, p 463, "replete with acute observations, and valuable elucidations of many gem-types."

1486. CRIPPEN, RICHARD A, Jr Nephrite jade and associated rocks of the Cape San Martin region, Monterey County, California. *Calif Div Mines Spec Rpt* 10-A, San Francisco, 1951. Centerstapled: 14, [2 blank]p, 14 fig(2 sketch maps); pale green print wrap. 28 x 21.5 cm(11 x 8 1/2 in). Cut. $.25. JSL. Occurrences of nephrite, some of gem quality, as lens-like masses, some waterworn, weathered from serpentine, in the waters near Plaskett Point(Jade Cove) and Cape San Martin. GS 51-131.

CRIPPEN, R A, Jr, see CALIFORNIA DIVISION OF MINES; also MACFALL, R P, 1980.

1487. CROCKER, H J & McCRAE, J, editors

South Africa And Science | A Handbook | Prepared under the auspices of the South African | Association for the Advancement of Science | for the Meeting of the British Association | in Capetown and Johannesburg, | South Africa, 1929. | General Editor: | H.J.Crocker, | Director of Publicity, Johannesburg. | Scientific Editor: | J.McCrae, Ph.D., F.I.C., Government Analyst. | Printed for | The South African Association For The Advancement | Of Science | by Hortors Limited, Johannesburg. | 1929.

16°: [1], [1 blank], x, 313, [3 blank]p; 40 tip-in glossy photo pls (2 maps) + 2 unnumb photo pls; 1 fig. Green cloth, gold title cover & spine. 18.3 x 12.3 cm(7 1/4 x 4 7/8 in). Cut. JSL.

Contains chs on geography, government, education, mineral resources & mining, agriculture, botany, fauna, game reserves, astronomy, athropology, medicine, commerce & industries. Ch 7, p 127-47, 3 glossy photo plates, is by Alexander Logie Du Toit on the occurrences of diamonds and the diamond industry.

CROKER, THOMAS CROFTON(1798-1854)

B Cork, Ireland; largely self-educ, strong interests in folklore, archeol; an artist of merit; became an author of note, an antiquary, and collector; friend of Albert Denison(1805-1860), first Baron Londesborough, "an enthusiastic antiquary;" 2nd marriage to Ursula Lucy Grace, dgtr of Admiral Charles Orlando Bridgeman; she died 1883. DNB.

1488. -----1853

Catalogue | Of A | Collection Of Ancient & Mediaeval | Rings and Personal Ornaments | Formed For | Lady Londesborough. | [Londesb monogr] | "Catalogues raisonnés of Collections are very frequent in France and Holland; and it is no high degree of | vanity to assume for an existing Collection an illustration that is allowed to many a temporary auction - an |

existing Collection - even that phrase is void of vanity." | Horace Walpole's Description of Strawberry Hill. | Printed For Private Reference. | MDCCCLIII. [London, 1853]

Croker's authorship is acknowledged by him in his Prefatory Letter.

4°: [2 blank], viii, [2], 88 p.; 2 tip-in fold woodcut engrav pls; 48 text cuts; wood cut headpc(view of Grimston Hall). Pale blue printed wrap, cover title in ruled frame. 25.3 x 19.8 cm(10 x 7 3/4 in). Uncut. JSL.

Cont: blank f; tp; print data; pref ltr; cat tp; catalog; index of objects; index of works consulted(p 85-7); index of names.

The highly interesting Prefatory Letter gives the history of the collection, commencing with its original formation by a Mr Isaacs, its purchase by Croker, and sale to Londesborough, with the proviso that the latter would publish copies of the present catalog, written by Croker, "to facilitate reference to the specimens, and secure, at all events, a record of them." There are 250 pieces in the collection, many set with gems and engraved gems. The descriptions are scholarly, detailed, and replete with comments on the nature of gemstones, and remarks on the designs, ages, and mottos that appear on either the metal portions of the pieces or upon certain of the stones. Where known, provenances are also given. The first large folding plate, bound-in ahead of p 1, shows gold ornaments recently found in Ireland; the 2nd plate, tipped-in facing p 63, shows jewelry, bottles, and rings with engraved gems found near Amiens, France. The small text figures are mostly rings. A rare work.

1489. CROLL, I C H The opal industry in Australia. *Commonwealth of Australia, Dept Supply & Development, Bur Mineral Resources, Geol & Geophys Bull* 17, Canberra, 1950. Center-stapled: 47 p, 3 tabs; 3 figs(map); 2 appends. Pale gray printed wrap. 24 x 18.3 cm(9 1/2 x 7 1/4 in). Cut. History of mining, the fields, factors affecting prod & marketing, cutting, trade, suggested improvements. Biblio, p 42, 22 entries; Append 1 - Mining Tenures; Append 2 - U S Market. Rev *J Gemm*, 2, 8, 1950, p 356.

CROLY, GEORGE, see DAGLEY, RICHARD & CROLY, GEORGE

CRONSTEDT, AXEL FREDRIK, see SCHMEISSER, J G

CROOK, THOMAS(1876-1937)

B Burnley, Engl; attended Roy Coll Sci, Dublin; joined Imperial Inst London in 1905; contrib num papers to their bull. Obit L J Spencer, *Min Mag*, 25, 1939, p 287-8.

1490. -----1921

Economic | Mineralogy | A Practical Guide To The | Study Of Useful Minerals | By | Thomas Crook | Chief Of The Intelligence And Publications Section, Imperial Mineral | Resources Bureau, | London | Associate Of The Royal College Of Science, Dublin | Fellow Of The Geological Society | Member Of The Institution Of Mining And Metallurgy | With Illustrations | Longmans, Green And Co. | 39 Paternoster Row, London | Fourth Avenue & 30Th Street, New York | Bombay, Calcutta, And Madras | 1921

8°: xi, [1 blank], 492p; 247 fig. Bright red cloth, blind frame on cover; gold lett & rules spine. Sepia dj, black lett, corner orns. 21.3 x 13.7 cm(8 3/8 x 5 3/8 in). Cut. 25s net. LC 21-2127. JSL.

Cont: 1/2tp; tp; pref; tab cont; 12 chs; index.

Clearly written introduction to the nature, deposits, and economic importance of many classes of mineral materials. Gemstones are described in Ch 10, p 268-322, ie, 134 species & varieties; see also building & ornamental stones, Ch 11, p 336-42. The material is not new but it is accurate, succinct, and covers the most improtant aspects of the materials and their deposits. Reprinted after 1921 in New York, identical except for the substitution of "Longmans" at the foot of the spine for "Longmans & Co."

CROOKE, W, see TAVERNIER, J B, 1925, 1977.

CROOKES, Sir WILLIAM(1832-1919)

Brit chemist, physicist; b London; educ Roy Coll Chem; hon PhD Birmingham, Oxford, Cambridge univs; founded *Chemical News*; disc thallium; investigated cathode & other rays in high vacuum tubes paving way for disc of x-rays; devised radiometer and spintharoscope; investigated diamond fluorescence; converted diamond to graphite by electron bombardment; in later years engaged seriously in psychic research. Pogg 3, 313-4; 4, 282. Obit *Min Mag*, 18, 1919, p 393-4; biogr notes, supplied by Crookes, publ by G F Kunz, *Amer Min*, 4, 7, 1919, p 85-8.

1491. -----1896 The diamond mines of Kimberley. Two lectures delivered at the Imperial Institute, Nov 16th and Dec 7th, 1896. By William Crookes... London, 1896. 29 p. 24 1/2 cm. Bibliogr p 4-5. USGS Kunz Coll, GS 34-370. Not seen.

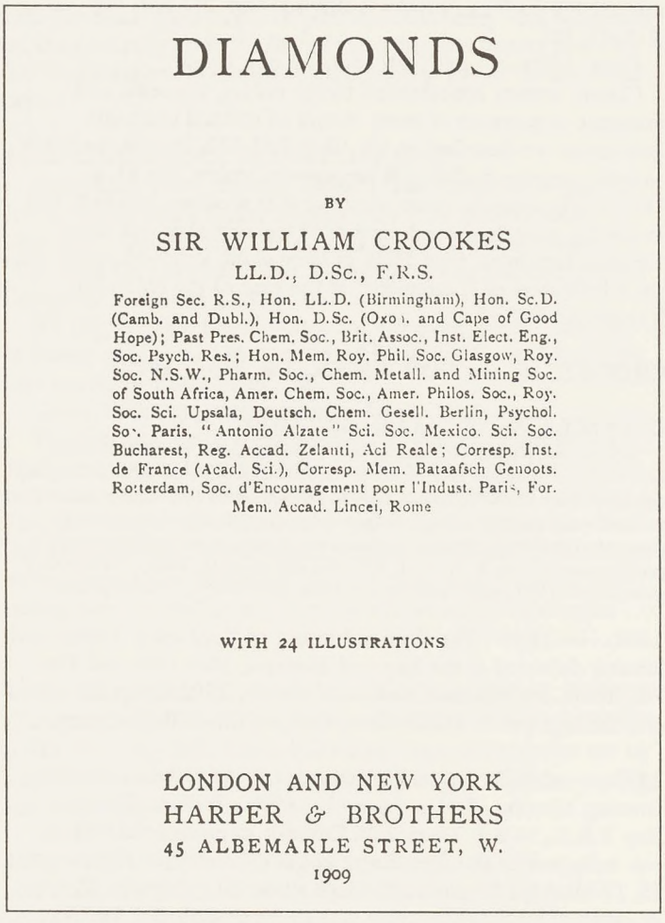
1492. -----1897 Royal Institution of Great Britain... Weekly Evening Meeting, Friday, June 11, 1897.... William Crookes, Esq. F.R.S., M.R.I. Diamonds. Offprint of same article which was to appear in the *Proceedings* in 1898, see below. Centersewn: 25, [3 blank]p; 30 photos, 1 diagr all on 15 glossy pls. 21.6 x 14 cm(8 1/2 x 5 1/2 in). Cut. USGS Kunz Coll, GS 34-766.

1493. -----1897 The diamond mines of Kimberley. *Nature*, London, 55, 1897, p 519-23; 56, p 325-31. Not seen.

1494. -----1897 Diamonds. *Chem News*, London, 75, 1897, p 301-2; 76, p 1-4, 13-15, 25-27. Not seen.

1495. -----1898 Diamonds. Mr. William Crookes on diamonds. *Proc Roy Inst Great Brit*, London, 15, part 2, no 91, 1898, p 477-501. Read at the Weekly Evening Meeting, Friday, June 11, 18971 London, 1898. Not seen. From Mendelssohn: "An illustrated account of the diamond mines and diamonds of South Africa... methods of working the mines, scientific description of the qualities of diamonds... tkeories relative to their formation and origin..." Crookes remarked "it is certain... that iron at high temperature and under great pressure will act as the long sought solvent for carbon, and will allow it to crystallize out in the form of diamond - conditions existent at a great depth below the surface of the earth."

1496. -----1898 Diamonds by... Crookes. From the *Smithsonian Rept* for 1897, 219-235. Washington, Government Printing Office, 1898. Separate. Edgestapled: [1], [1 blank], p 219-235, [1 blank]p; pale gray print wrap. 23.6 x 15.8 cm(9 1/4 x 6 1/4 in). Cut. JSL. LC 5-15-954. Condensed, abbreviated, without mines descriptions and engravings.



DIAMONDS

BY

SIR WILLIAM CROOKES

LL.D., D.Sc., F.R.S.

Foreign Sec. R.S., Hon. LL.D. (Birmingham), Hon. Sc.D. (Camb. and Dubl.), Hon. D.Sc. (Oxon. and Cape of Good Hope); Past Pres. Chem. Soc., Brit. Assoc., Inst. Elect. Eng., Soc. Psych. Res.; Hon. Mem. Roy. Phil. Soc. Glasgow, Roy. Soc. N.S.W., Pharm. Soc., Chem. Metall. and Mining Soc. of South Africa, Amer. Chem. Soc., Amer. Philos. Soc., Roy. Soc. Sci. Upsala, Deutsch. Chem. Gesell. Berlin, Psychol. Soc. Paris, "Antonio Alzate" Sci. Soc. Mexico. Sci. Soc. Bucharest, Reg. Accad. Zelanti, Aci Reale; Corresp. Inst. de France (Acad. Sci.), Corresp. Mem. Bataafsch Genoots. Rotterdam, Soc. d'Encouragement pour l'Indust. Paris, For. Mem. Accad. Lincei, Rome

WITH 24 ILLUSTRATIONS

LONDON AND NEW YORK
HARPER & BROTHERS
45 ALBEMARLE STREET, W.
1909

1500. Titlepage of one of the most popular books written about diamonds and blending science with interesting facts about the industry

1497. -----1905

Diamonds. | A Lecture | Delivered Before The | British Association, at Kimberley, | September 5, 1905. | By | Sir William Crookes, | Hon. D.Sc.(Oxford & Dublin), F.R.S. | London. | [taper rule] | 1905.

Privately publ; London: E.J.Davey, Printer.

Edgesewn: 8°: [1], [1 blank], 40 p; 1 fig. Bright orange print wrap; cover title. 24.2 x 16.9 cm(8 1/2 x 6 5/8 in). Cut. GS 34-902, rev. Not seen.

Mendelssohn: "Sir William states that "Some fine colourless crystals of diamond were imbedded in radium bromide and kept undisturbed for more than twelve months. At the end of that time they were examined. The radium caused them to assume a beautiful blue colour, and their value as 'fancy stones' had been materially increased"and "this blue colour is persistent and penetrates below the surface...[etc] ... It was reported in Kimberley that the expenses connected with the lecture were £600, and so great was the demand for seats that large amounts were offered for tickets." Rare.

1498. -----1905 Diamonds. *Chem News*, London, 92, 1905, p 135-41, 147-50, 159-63. Not seen. *The Times*, London, Wed Sept 6, 1905, devoted three and one-half columns to the lectures, noting that they cost £3,000 because they involved elaborate experiments.

1499. -----1905 A new formation of diamond. *Proc Roy Soc London*, A, 76, 1905, p 458-61; elaborated upon in Crooke's own journal: *Chem News*, 92, 1905, p 135-40, 147-50, 159-63, figs; also in *Nature*, 72, 1905, p 593-99. Not seen.

1500. -----1909

Diamonds | By | Sir William Crookes | LL.D., D.Sc., F.R.S. |... [12 lines of honors, mbrships] ...| With 24 Illustrations | London And New York | Harper & Brothers | 45 Albemarle Street, W. | 1909

8°: xvi, 145, [1], [2 advert], [2 blank]p; front photo pl tip-in + 22 photos on 15 tip-in glossy pls; 1 fig is listed as a plate. Maroon cloth, floral-orn blind frame on cover; logo blind-stamped back cover; elaborate floral gilt spine with gold lett, rules. Pale gray-blue dj; series title, price, other bks in series, press notices. 17.1 x 11 cm(6 3/4 x 4 3/8 in). Teg, others untrimmed. Cloth: 2s 6d; leather(not seen): 3s 6d; in U S $.75 cloth. GS 10-116. JSL.

Cont: ser tp; dec 1/2 tp; pl; tp; dedic; pref; tab cont; pls list; 11 chs; index; advert; blank f.

Obviously most of the text is derived from Crookes's previous lectures on the diamond and the numerous ancillary article publications but expanded and enriched with suitable illustrations. About two-thirds of the text is occupied by descriptions of the diamond mines of South Africa, including details on geology & mineralogy of the deposits, the diamonds themselves, and the methods of mining & recovery. The last third takes up specific properties of diamond, paramorphs of carbon, genesis of diamond, the formation of diamond in nature, and diamonds in meteorites. All of it is written lucidly and simply, and despite the relatively small size, this monograph remains a fundamental contribution to the science and natural history of the diamond. The enormous popularity of both Crookes's lectures and this derived work resulted in many reprintings and slight variants, eg, an issue in dk red cloth with only the 1/2title placed ahead of the frontispiece plate, another in the same cloth but slimmer and supplied with a translucent paper dj, and lacking the final blank leaf. In some issues, the frontispiece plate is guarded with tissue. An issue, bound in dk red leather, is like the first described issue but is blind-ruled on the cover only. There are others but little would be gained by a recital of their differences.

CROOKES, W, see MITCHELL, J

1501. CROSS, ROSELLE THEODORE

Clear as Crystal. | [rule] | A Series Of Talks To Children On the Crystal, Given | In The West Denver Congregational Church In | Denver, Colorado, During 1886 And 1887. | [rule] | By Rev.R.T.Cross, | Author of Home Duties. | [rule] | Fleming H.Revell. | [to left, 2 lines:] Chicago: | 148 And 150 Madison Street, | [in center, 2 rules] | [to right:] New York: | 148 And 150 Nassau Street. [sic] | Publisher of Evangelical Literature. [1887]

8°: blank f supplied + 206 p + [2 advert]p + blank f supplied. The first 8p in Roman numerals, with p8 showing "iii" instead of viii. Olive green cloth, gilt cover title & spine title; beveled edges; pale olive green endp. Text paper vertically

ribbed, browning, brittle. 18.3 x 12.3 cm(7 1/4 x 4 7/8 in). Cut. JSL.

Cont: blank f; tp; publ data; dedic; pref; tab cont; 2 part text/ of 50 chs; advert(for a previous bk & mineral specimens); blank f.

Simply worded, brief sermons of considerable naive charm on virtually every property possessed by minerals and gemstones, also the mineral-collecting experiences of the author, remarks on curious lore and Biblical gemstones, and other topics reflecting the author's deep love of nature, particularly as manifested in minerals and gemstones. Very rare, a condition probably contributed to by the brittle paper and subsequent disintegration of copies.

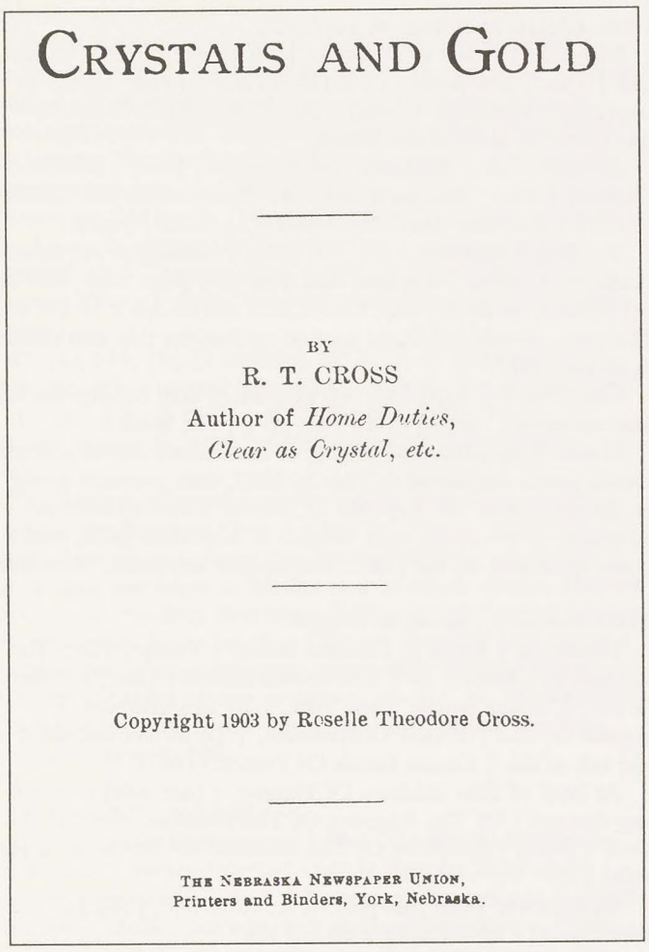
1502. -----1903

Crystals And Gold | [rule] | By | R.T.Cross | Author of Home Duties, | Clear as Crystal, etc. | [rule] | Copyright 1903 by Roselle Theodore Cross. | [rule] | The Nebraska Newspaper Union, | Printers and Binders, York, Nebraska.

8°: 192 p (p 1-2 blank); glossy photo front portr of author tip-in. Green or red cloth, black-rule frame on cover enclosing title; gold spine title. 19 x 13 cm(7 1/2 x 5 1/8 in). Cut. LC 3-17274. JSL.

Cont: blank f; front pl; tp; dedic; pref; tab cont; 18 chs; index.

As in his previous work, a delightful collection of anecdotes from the author's life. He lived for many years in New York State and then removed to Colorado to establish a residence but traveled extensively to other places in the West. His avocation of mineral collecting was pursued at all times and in all places where he found himself, and in this work he tells where he went and what he found. Cross's style of writing reminds one of Ruskin in his *Ethics of the Dust*, which Cross mentions, but the wording is less self-consciously grand and thoughts are expressed more simply. Of the 18 chapters, 5, 6, 10, and 11 treat wholly or in part the collecting of crystals of gemstones. Chapters 5 and 6, particularly, describe his experiences in the Rocky Mountains of Colorado, in which region the author was one of the earliest collectors of record. Historically important but rare and little noticed. I have not been able to readily find biographical details beyond those included in the above.



CRYSTALS AND GOLD

BY
R. T. CROSS
Author of *Home Duties*,
Clear as Crystal, etc.

Copyright 1903 by Roselle Theodore Cross.

THE NEBRASKA NEWSPAPER UNION,
Printers and Binders, York, Nebraska.

1502. Titlepage of Cross' charming and unpretentious book on his mineral collecting experiences in part

1503. CROW, W B

Precious Stones | Their Occult Power and Hidden | Significance | By | W.B.Crow | D.Sc, Ph.D. | The Aquarian Press | 37/38 Margaret Street, London, W1 [1968]

8°: 64 p; black cloth-type paper over bds; gold spine title; col dj. 18.4 x 11.9 cm(7 1/4 x 4 3/4 in). Cut. Also cementb, wrap, same p size. Bds: 65 p; paper: 35 p. ISBN 0 85030 003 7 bds; 031 2 paper. JSL.

Cont: 1/2tp; other author bks; tp; publ data; tab cont; 14 chs.

A popular long-enduring simplified treatise on the curious lore and magical powers of gemstones. There are chapters on astrology, healing, magic and religion, followed by descriptions of diamond, corundum, topaz, emerald, amethyst, rock crystal and other transparent stones, and also those that are only translucent or opaque. A final chapter discusses organic gemstones. On the whole, it is a fair and dispassionate review of the curious lore of gemstones and their fundamental physical properties. Regrettably, however, the author uses outmoded and misleading terms as "oriental" and "occidental" as applied to gemstones, eg, "oriental topaz," for yellow sapphire and the like. Brief mentions in the text of record-size gemstones are not always correct. Numerous issues.

1504. -----1980, completely rev & reset

Precious Stones | Their Occult Power | and | Hidden Significance | By | W.B.Crow, D.Sc., Ph.D. | The Aquarian Press | Wellingborough, Northamptonshire [England; 1980]

Cementb: 95, [1 blank]p; col glossy wrap; title & brilliantcut gem on cover with planet Saturn; spine title; back cover resume. 17.8 x 10.9 cm (7 x 4 1/4 in). Cut. ISBN 0 85030 206 4; in USA: 0 87728 458 X. JSL.

Cont; resume, other author bks; tp; publ data; tab cont; 14 chs; index; blank p.

The only significant changes are the addition of numerous headings with the chapters and the fragmentation of certain large chapters into several smaller ones; an index has been added since the 3rd printing.

1505. -----1980 Precious Stones |...| Samuel Weiser Inc. | 740 Broadway, New York, N.Y. 10003. Identical. JSL.

1506. CROWN JEWELS. FRANCE

Diamants | Perles Et Pierreries | Provenant | De La Collection | Dite | Des Joyaux De La Couronne | [logo] | Paris | Imprimerie Nationale | [rule] | M DCCC LXXXVII [1887; title in red & black in orn frame]

At head of title: Ministère Des Finances | [orn] | Direction Générale | De L'Enregistrement, Des Domaines Et Du Timbre | [rule] | Direction Des Domaines De La Seine | [orn]...

2°: blank f supplied + [4], 15, [2]p; 9 photograv pls, tissues, bound-in + blank f supplied. Stiff, pale gray print wrap, title in red & black on cover; lists. 37.6 x 28.3 cm(14 3/4 x 11 1/8 in). The same ornamental frame used to enclose the title also encloses all text. JSL.

Cont: blank f; 1/2tp; tp; law permitting sale; conditions; sale announcement; catalog of 48 lots; pls tp; pls; blank f.

Handsomely illustrated catalog of the famous sale of selected crown jewels conducted in Paris in 1887, with proceeds going to the treasury of the Republic of France. There are brief descriptions of the items, with weights of important gems, with many illustrated on the plates. Historically important. Very rare.

1507. -----1887, same, In English

Diamonds | Pearls & Precious Stones | Taken | From The Collection | Known As | The Crown Jewels. | [seal] | Tiffany & Co., | Union Square, New York, | By Appointment, | Agents Of The | French Government, | To further and assist in the sale of the | Crown Jewels Of France. [1887]

At head of title: Ministry Of Finance. | [orn rule] | Directory General | Of The Registry, Of The Domains, And Of The Seal. | [rule] | Directory Of The Domains Of The Seine. 2 [orn rule] |...

Centersewn: print pale gray wrap, cover title, [18], [2 blank]p. 33 x 26.8 cm(13 x 10 1/2 in).

Cont: tp; law permitting sale; catalog tp; cond of sale; catalog; blank f.

CROWN JEWELS. PORTUGAL, see ROSAS JÚNIOR, JOSÉ

CROWNINGSHIELD, G R, see COPELAND, L 1960, 1977; also HOLMES, R J; also NASSAU, K, 1969.

1508. CROWNINGSHIELD, ROBERT & NASSAU, KURT The heat and diffusion treatment of natural and synthetic sapphires. *J Gemm*, 17, 8, 1981, p 528-41, 16 fig(col), table.

CROZAT, JOSEPH ANTOINE, see MARIETTE, P-J

CUBE, or CUBA, JOHANN VON(ca 1484-1503)

F D Adams, *Birth and Development Geological Sciences*, p 142-3, notes that von Cube was the city physician of Frankfurt but others believe him to have been one Johann Wonnecke, designated "von Cube" from the name "Caub," his native town on the Rhine between Bingen and Coblenz.

1509. -----1485

Hortus Sanitatis, Mainz 1485. Apparently the first edition, in German, of this famous herbal; other editions in 1486, -87, -88, -96; first Latin Mainz 1491; other edits 1496-1536 in various languages and at various places; none seen. Only the edition of Strasbourg, 1517, is described below. There is a complete collation of the Mainz, 1491 edit in *The Herbert Clark Hoover Collection*, 1980, p 103-4, and another of the Strasbourg edit of 1517. According to *Bibliographie Universelle*, 10, p 327, Haller's *Bibliothèque Botanique*, 2 v, 1771-72, provides a list of all the edits, German & Latin, and translations in several languages. More information can be found in Ellen Schaffer's *Garden of Health*, 1957, no 35 and in *Hunt Botanical Cat*, 1949, no 12. A facsimile edit publ by Verlag der Münchener Drucke, 1924, with the study by W.L.Schreiber *"Die Kraüterbücher* des XV und VXI Jahrhunderts," 64 p, not seen. Agassiz II, 138.

1510. -----1517

Ortus | Sanitatis | De Herbis et Plantis. | De Animalibus et Reptilibus. | De Avibus et volatilibus. | De Piscibus et Natatilibus. | De Lapidibus et in terre ve= | nis nascentibus. | Urinis et earum speciebis. | Tabula medicinalis | cum Directorio ge | nerali per omnes | tractatus. | Anno. M.D.CVII. [Strassburg: Renatus Beck; 1517. Title in red & black]

2°: [356]f; a^8, b-k^6, l^8, m-r^6, s^8, t-z^6, A^6, B^8, C-E^6, F^8, G-I^6, K^8, L-M^6, N^8, O-R^6, S^8, T-Z^6, aA-$2B^6$, $2c^8$, 2D-$2E^6$, 2F-$2G^8$, 2I-$2K^8$. In double columns; orn inits; fullp woodcut of skeleton Kl verso, over 1,000 text woodcuts of plants, animals, workmen, views, etc, which because of their quaint charm and considerable artistic merit have been much reproduced; one of the cuts shows petroleum gushing from a rock and may be the earliest illustration of an oil well. 30 x 22 cm(11 3/4 x 8 in), copy in Klauber Coll, San Diego Nat Hist Soc Libr; Hoover Coll 30.5 cm.

Cont: tp(elaborately framed); blank p; prohemium; tracts; indexes of chs & sects for each of the tracts; indexes of subjects for each tract; blank p.

The tract on stones, including gemstones, consists of 35 leaves bearing 144 chs, each devoted to a single stone, beginning with "Adamas" and ending with "Zignites," which are listed in one of the indexes under "Tabula de Lapidibus." As may be anticipated, many of the stones are so inadequately described that they cannot now be identified.

1511. CUDLIPP, EDYTHE

Jewelry | [rule] | Edythe | Cudlipp [foregoing encl in a cut gem outline] | E.P.Dutton New York [1980]

Cementb: xii, 239, [1]p; 5 text fig; ch titles encl in cut gem outlines. Heavy col wrap; 2 col photos on cover + title; spine title; back cover resume. Also in hardcover, not seen. 20.9 x 13.6 cm(8 1.4 x 5 3/8 in). Cut. LC 79-17659; ISBN 0-525-93103-1; 0-525-93122-8(cloth). Paper: $7.95. JSL.

The author writes on a number of subjects and appears to have no special qualifications in the present subject area but nevertheless has produced an easily understandable but necessarily shallow book because of encompassing so large a number of varied topics, eg, metals, terminologies, gem data & lore, purchasing jewelry, costume jewelry, values, appraisals, glossary, etc. Most information is on gemstones in Ch 3, p 39-62 (properties, lapidary work, cutting styles), and Ch 4, p 63-101 (brief descriptions of gemstones from agate to zircon).

1512. CUGNIN, L Gites diamantifères. *Bulletin de la Société de l'Industrie Minérale*, Saint-Etienne, 3, 4 ser, livr 1, 1904, p 247-64, 10 pls; extracted *Engineering & Mining J*, 77, 1904, p 893. Not seen: Gonsalves, *Bibliogr Brasil*, 1928, p 49.

CULLEN, E, see BERGMAN, T, 1784

1513. CUNHA, CLAIRE DA & CUNHA, ALAIN DA

Claire et Alain da Cunha | Des Pierres Precieuses | Aux Pierres Fines | Guide De L'Amateur Et Du Collectionneur | Préface de H.-J.Schubnel | conservateur des collections minéralogiques | du Muséum national d'histoire naturelle | [col gem photo] | Le diaspore n'était connu jusq'à ces dernières années | qu'en tres petits cristaux. Ce cristal de plus de 6 carats | provient des nouvelles mines de Turquie. | Plon [Paris,1984]

2°: 93, [3]p (first & last f used as pastedowns); 76 col text photos; 5 line drawings. Black plasticized paper bds; col photo & title on front cover; spine title; questions & publ data back cover. 28 x 21.9 cm(11 x 8 1/2 in). Cut. Glossy paper. Fr 135. ISBN 2-259-01112-8. JSL.

Cont: pastedown with publ data; tp; col photo; pref; col photo; text; identif table; tab cont; list of addresses: verso last pastedown.

Both authors are professional gemologists and write in a clear and interesting style, somewhat romantically, on the fascination of gems, what they are, how they are examined, their properties and how these are determined by use of various instruments, accessories, etc. There are discussions of synthetics and their detection, assembled stones, stones which present misleading appearances, and explanations of modern synthesis methods. A lengthy indentification table ends the text and treats 94 species and varieties. The addresses at the back are for sellers of gems, makers of instruments, manufacturers of synthetic materials, journals & books, and museums. The color photographs are generally good and appropriate, while some are excellent, especially a pair showing readings in a refractometer. Rev *J Gemm*, 19, 3, 1984, p 278.

1514. CUNNINGHAM, J LESTER(d 1970)

A Check List of-- | Cabochon Gem Materials | and | Their Lapidary Features | By J.Lester Cunningham | With photographs by Marge Cunningham | of slabs, cabochons and jewelry designed | and made by the author. | [logo] | Price $1.50 | Published by | Gembooks | Mentone, California [1963]

Centerstapled: 39p (first 2 p blank) + [1 blank]p; p 31-39 blank log sheets or for notes; 21 photos. Print wrap: photos of gemstones slices both covers, orange panels with black lett; resume. 22.9 x 15.3 cm(9 x 6 in). Cut. JSL. LC 63-25934.

Preliminary text, p 6-25, explains use of the check list for the materials listed alphabetically on p 26-31 by popular name and code numbers & letters to indicate color and other features. Most useful to the rank beginner who may not be familiar with the modern plethora of trivial and fanciful names applied to cabochon materials, especially the crypto-crystalline varieties of quartz.

1515. -----1965, 2nd edit Title same but "Second Edition" now added; wraps similar but "New Enlarged 2nd Edition" added; 48 p (first 2 p blank), p 44-48 blank; 23 photos. Same size & price. P 32-43 are new and provide an analysis of the distribution of the gem materials according to types, sources, and characteristics.

CUPERUS, GISBERTUS, recte KUIPER, GIJSBERT (1644-1716)

B Hemmenden, Netherlands; critic & philologist; for many years prof hist at Deventer; his works noted for solid scholarship. *Biogr Univ*, 10, p 365-6.

1516. -----1676

Gisberti Cuperi | Consulis, & Professoris Daventriensis | Harpocrates | Seu | Explicatio Imagunculae Argenteae | Antiquissimae, sub Harpocratis | figura ex Aegyptiorum instituto | Solem repraesentantis: | Qua varii Auctorum loci, Hieroglyphicae | notae, Numismata, Basilidianorum gem- | mae, nec non marmora nova luce | perfunduntur. | Ad | Virum Amplissium | Henricum Ter Borch, | Consulem, & Ad Consessum Illustrissimo- | rum Foederatae Belgicae Ordinum | Delegatum | [woodcut orn] | Amstelodami, | [rule] | Apud Theodorum Pluymer, Biblio- | polam sub signo Senecae. Anno 1676. [Amsterdam]

8°: [4], 114, [9], [1 blank]p; pi^2, A-G^8, H^6. Engrav title conjugate with a printed title; 12 text engrv; ch orns, inits. 14.8 x 9.6 cm(5 7/8 x 3 3/4 in). Cut; cropped. JSL.

Cont: engrav tp; print tp; text; addenda; index; errata; blank p.

An involved, exhaustive treatise on the deity Harpocrates, originally the Egyptian Heru-p-Khrat or "Horus the Child," usually depicted as a young boy, symbolizing the young Sun, and holding one finger to his lips as if to enjoin silence. The cult worshipping this deity flourished during the late Roman Empire. Of interest is the fact that Cuperus describes and figures a small number of engraved gems upon which Harpocrates appears, among other objects as statues, plaques, etc. Goodland, *Biblio Sex Rites*, p 147; not mentioned by Mariette nor Furtwängler. Graesse 2, 308.

1517. -----1687, 2nd edit

Gisb. Cuperi | Harpocrates, | Sive | Explicatio imaginunculae argenteae peran- | tiquae; quae in figuram Harpocratis | formata representat | Solem. | Ejusdem | Monumenta Antiqua | Inedita. | Multi Auctorum loci, multae Inscriptiones, Marmora, Num- | mi, Gemmae, variis ritus, & Antiquitates in utroque | Opusculo emendantur & illustrantur. | [rule] | Accedit Stephani Le Moine | Epistola de Melanophoris. | [woodcut vignette] | Trajecti Ad Rhenum, | [rule] | Apud Franciscum Halma, Acad.Typogr. | Anno M.DC.LXXXVII. [Utrecht, 1687; title in red & black]

4°: [8], 294, [14]p; engrav tp conjugate with pi-4; 41 text engrav; 6 pls bound-in(4 fold) not includ in pag. Ch orns, inits. 24 x 19 cm(9 1/2 x 7 1/2 in). Cut, cropped. JSL.

Cont: engrav tp; print tp; pref; text of Harpocrates to p 180; then tp to "Monumenta Antiqua Inedita;" text to p 252; tp to Le Moine's ltr; text to p 282; addenda; index of authors; index of subj; errata.

Greatly enlarged with additional engravings and bound-in plates, the latter in the large text section on hitherto unpublished antiquities. Goodland, ibid; *Biogr Univ*, ibid: "the second edition is preferred to the first.

1518. -----1694, a reprint by Guilielmi Brodelet, Utrecht; not seen.

CURRAN, JOHN MICHAEL MILNE (1859-1928)

B Ireland, emigrated to New South Wales; ordained priest but later in career developed interest in geol; commencing 1884 publ several important articles; lecturer, Sydney Technical Coll to 1902; apptd govt geol at Bathurst 1899. *Austral DB,* 3, A-C, 508-9.

1519. -----1897 On the occurrence of precious stones in New South Wales, and the deposits in which they are found. *J of the*

Proc Roy Soc New South Wales, Sydney, 30, 1897, p 214-85, pls 13-20. Also separate: 8°: [2], 73, [3]p, 4 text fig, 8 glossy photo pls bound-in at end of text(16 photos printed in greenish ink). Pale greenish print wrap. 20.6 x 13.6 cm(8 1/8 x 5 3/8 in). Cut. JSL. First publication to adequately describe the gemstone resources; accurate detailed information on localities, size, abundance, qualities of gemstones, historical remarks, etc. Gemstones treated are principally diamond, sapphire and ruby, emerald and beryl, also topaz, opal, etc. Notes on chem analyses, discrimination of gemstones, explan of pls which show gemstone crystals, rough opal, and views at several important localities. Introd contains biblio, p 3-6, 30 entries.

1520. CURRAN, MONA

Mona Curran | [taper rule] | Jewels and Gems | [logo] | An Arco Handybook [London: Arco Publications, 1961]

Cementb: [2 blank], 152, [4 blank]p; 33 photos on 8 glossy f in 2 groups, between a 44-5 and 108-9. Heavy print wrap; red, white & blue cover; reviews. 17.7 x 11.7 cm(7 x 4 5/8 in). Cut. JSL. LC 62-14812.

Cont: 2 blank f.; ser tp; other ser bks; tp; publ data; ackn; dedic; tab cont; 17 chs; index; 2 blank f.

A popular exposition recounting many of the well-known facts. There is a chapter on five precious stones, namely, diamond, emerald, sapphire, ruby, pearl, then another on miscellaneous important gemstones, six chs on jewelry, a ch on Regency and Victorian jewelry, several on royal jewels, and others on birthstones, cutting and setting gems, several famous gems, and the care of jewels. Several photos depict the Cullinan diamonds in the rough.

1521. -----1962, New York

A | Treasury | of | Jewels | and | Gems | Mona Curran | New York | [taper rule] | Emerson Books Inc. [1962]

16°: 152 p; 33 photos on 8 tip-in & bound-in glossy f. Dk pink unfin cloth; gold lett spine. Col dj, jewelry photos, resume. 20.2 x 13.6 cm (8 x 5 3/8 in). Cut. LC 62-14812. $4.50. JSL.

Cont: 1/2tp; tp; publ data; dedic; ackn; tab cont; 17 chs; index.

Identical; rev *G & G*, 10, 11, 1962, p 349.

1522. CURTIUS, FRANCISCUS, or FRANCISCO DE CORTE, of Bruges Syntagma de annulis sive tractatus annularis de annulorum origine, virtute et dignitate... Antverpiae, Jouret, 1766. 466 p. "Written by an Augustinian priest from the official Christian viewpoint." Not seen.

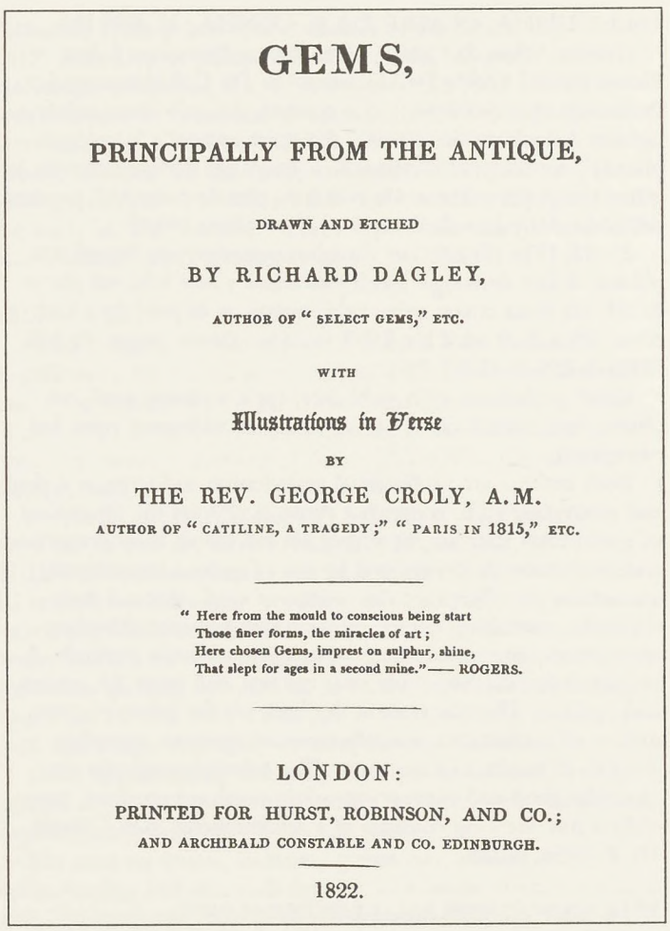
1523. CURTIUS, L Falsche Kameen. *Archäologischer Anzeiger; Beiblatt zum Jb Dt Arch Inst*, Berlin, 1944/45, 1949, cols 1-24. Not seen.

CUSPINIAN, J, see MARBOD, 1511

1524. CUSTERS, J F H & WEAVIND, R G The crystal structure of the diamond. Johannesburg: The Diamond Research Laboratory, 1958, 41 p, ill. Not seen.

CZAYA, R, see SMITH, N R, 1976

1525. CZECZOTT, HANNA The flora of the Baltic amber and its age. *Prace Muzeum Ziemi*, Warszawa, 1961, 4, p 119-45; not seen.



GEMS,

PRINCIPALLY FROM THE ANTIQUE,

DRAWN AND ETCHED

BY RICHARD DAGLEY,

AUTHOR OF "SELECT GEMS," ETC.

WITH

Illustrations in Verse

BY

THE REV. GEORGE CROLY, A.M.

AUTHOR OF "CATILINE, A TRAGEDY;" "PARIS IN 1815," ETC.

"Here from the mould to conscious being start
Those finer forms, the miracles of art;
Here chosen Gems, imprest on sulphur, shine,
That slept for ages in a second mine."—— ROGERS.

LONDON:

PRINTED FOR HURST, ROBINSON, AND CO.;

AND ARCHIBALD CONSTABLE AND CO. EDINBURGH.

1822.

1533. Titlepage to Dagley and Croly's "union of art and poetry" with engraved gems as the basis

1526. CZIHAK, EUGEN VON Der Bernstein als Stoff für das Kunstgewerbe. *Die Grenzboten. Zs f Politik, Literatur u Kunst*, Berlin & Leipzig, 58, 2, 1899, p 179-89, 288-98. Not seen: Bock, 1981, p 173.

1527. D., M.L.M.D.S.

Denombrement, | Facvltez Et Origine | Des | Pierres Precievses, | Fait par M.L.M.D.S.D. | [woodcut orn] | A Paris, | Chez Andre' Bovtonne'. au | Palais, sur le grand Perron de la Ste | Chapelle, joignant la petite Porte de | Monsieur le Premier President, | à la belle Etoille. | [rule] | M.DC.LXVII. [1667]

8°: [2 blank], [1], [1 blank], [10], 71, [1 blank]p; a^{-8}, A-D^8, E^4 Although sig a^{-8} calls for 8 f, in two copies examined the initial blank f is absent. 13.6 x 8.5 cm(5 3/8 x 3 3/8 in). Cut, cropped. JSL.

Cont: blank f; tp; blank p; epistle; text; blank p.

A general treatise on gemstones embodying such information, often inaccurate, as then current on diamond, carbuncle, ruby, pearl, sapphire, emerald, turquoise, topaz, amethyst, hyacinth, opal, and aquamarine. There are also descriptions of "asteria" or the girasol of the Italians, cat's-eye, sardonyx, chalcedony, onyx, agate, jasper, heliotrope, nephrite, malachite, the "azure stone" or

Armenian stone, several stones which are fossils, and coral, amber and bezoar. Most space is devoted to the diamond. Additional information is provided on localities and on magical or curative powers of the stones. The opening letter, signed with the initials of the publisher, is addressed to Hardouin De Beaumont De Perefixe(1605-1670 or 1671), French historian and sometime Archbishop of Paris; nothing is known about the author.

1528. DABREN, ALBERT

Les | Pierres Précieuses | A Madagascar | par M.Albert Dabren | Ingénieur Civil des Mines | [orn rule] | (Extrait du Bulletin Economique du 4° Trimestre 1906) | [orn rule] | Tananarive | Imprimerie Officielle

At head of title: Colonie De Madagascar Et Depéndances | [rule] | Gouvernment Général | [orn rule]... [Title from wrap cover]

Centerstapled: [1], 13 p; pale green wrap, cover title. 26.8 x 17 cm (10 1/2 x 6 3/4 in). Cut. JSL.

Summarizes & augments a report by a certain M Villerme, "lapidaire," who visited two gem-producing regions in the central portion of the island. Provides a brief description of the regions, petrology, mineralogy, deposits of economic importance, remarks on gemstones (corundum, chrysoberyl, kyanite, garnet, zircon, tourmaline), descriptions of specific pegmatite mines, and remarks on beryl and its deposits. See also the same author's "Sur quelques pierres précieuses de Madagascar," *Bull de l'Acad malgache*, Tananarive, 4, 1905-6, p 109-15.

1529. DACCA COLLECTION

This Album Illustrates a | few pieces of Oriental | Jewellery from the | Dacca Collection, | some of which are quite | unique, while others are of | historical interest. | It has been compiled at | the suggestion of several friends in= | terested in the subject, and of guests | who wished to possess the record as a | souvenir of their visit to Dacca. [A very large initial "T",ornamented & rubricated, is at left of title text; np, nd, ca 1900?]

4°: grav pl of Nawab of Dacca, with tissue + [4]f of text + 12 col pls, tissued. Text rubricated. Green morocco leather, padded covers, royal arms & medals in gilt on cover in double-rule frame. Blue endp, overprinted in gold diaper pattern. Oblong, 19.4 x 23.4 cm(7 5/8 x 9 1/4 in). Aeg. JSL.

Cont: front photo pl; tp; text(catalog); blank p; pls(printed recto only; print data on verso last col pl: "Hamilton & Co., Calcutta and Simla."

A very handsome catalog of 14 jewels and jeweled objects in the collection including an armlet in which the center stone is the famous Duria-y-anoor, or in modern spelling, the Daryai-nur diamond, weighing 186 carats*, the state sword set with a very large fine emerald, a head ornament, headdress ornaments, an armlet set with engraved diamonds and an engraved emerald, a diamond-star ornament that once belonged to the Empress Eugenie, and other items. The plates are intensely colored lithographs which were used in Hendley's *Indian Jewellery*, 1906-9, specifically pl 113, which see. A very rare work, apparently issued only to friends or honored guests of Nawab. *For a good history of the stone, see Copeland's *The Diamond Dictionary*.

DACHENG, see WU TA-CHENG

D'ACHIARDI, G, see ACHIARDI, GIOVANNI D'

DACIER, B J, see MILLIN, A L, 1826

1530. DACOS, NICOLE, et al Il tresoro di Lorenzo il Magnifico. Repetorio delle gemme e dei vasi. Firenze, 1980, 302 p, 23 col pls, 208 b&w ill. Buckram. 25 x 18 cm. Not seen; from Thomas Heneage Cat 4, London, 1985, no 56.

DA COSTA, EMANUEL MENDES, see MENDES DA COSTA, E

DA COSTA DE MACEDO, J J,, see COSTA DE MACEDO, J J DA

DA CUNHUA, C & A, see CUNHA, C & A DA

1531. DA EL, pseud of WALKER, DALE

The | Crystal | Book | [col geom design] | Explore the amazing world of the | quartz crystal and its use as a | tool for harnessing mind energy | Dael (Dale Walker) [Sunol, California: The Crystal Company, 1983, 4th print Mar 1984; title from wrap]

Cementb: 80 p, not includ wrap; geom orn on 1/2to + 14 text fig. Pale purple wrap, col design, author portr, resume. 21.5 x 13.7 cm(8 1/2 x 5 3/8 in). Cut. JSL.

Among the astonishing powers claimed for quartz crystals and a few other species (if used according to the author's instructions) are more economical automobile gas consumption, better cooling for home refrigerators, telepathy, ability to locate missing things, etc. Splendid mysticism liberally laced with pseudoscientific claptrap.

DAGLEY, RICHARD (d 1841)

Dagley was an orphan, educ Christ's Hospital, London; at an early age exhibited a taste for fine arts and was apprenticed to a Mr Cousins, jeweler & watchmaker, where he was employed in painting miniatures and ornaments; later turned to larger paintings and illustration; the publ of the present work brought him to the public's attention. DNB.

1532. -----1804

Gems, | Selected From The Antique, | With | Illustrations. | [large engrav vignette] | London: | Printed For John Murray, 32, Fleet-Street, | By C.Whittingham, Dean Street. | [rule] | 1804.

2°: [1], [1 blank], [3], [1 blank], 30, [1], [1 blank], 60 p; pi^1, a^2, B-I^2, B-Q^2, R^1; title on thicker paper, supplied; leaf I_2' "Select Gems," is commonly absent or moved forward to serve as the 1/2tp; engrav vignette on p 30(of introd); 20 engrav pls bound-in. Pale blue-gray paper bds; engrav vignette on cover & below the title, followed by a long double-rule, then "London: | Printed For John Murray, 32, Fleet-Street, And | John Harding, 36, St.James's-Street, | By C.Whittingham, Dean Street. | [taper rule] | 1804." 28 x 21.7 cm(11 x 8 1/2 in). Uncut. LC 12-8551; JSL. In Mar 1959, Malcolm Gardner, bookseller, London, advertised "one of 25 copies on large paper."

Further on printing history, a prospectus for the work, of four pages, issued in 1803, stated that it "will be handsomely printed in Demy 4to; and will be comprised in Twenty Numbers. Each Number will contain from Seven to Nine Subjects... accompanied by a Portion of Letter-press descriptive of the Gems. A Number will be purchased every Month; Price Five

Shillings. The First Number will appear early in April, 1803." As may be expected from such issuance in parts, many variant collations occur, but only rarely is found a copy with the prospectus bound-in.

Cont: tp; advert; tab cont; introd; pls tp; text & pls.

The first 30 pages discuss the development of gem engraving, the uses of engraved gems, and the collecting mania, along with other topics. The descriptive portion is on the gems themselves and includes notes on gem materials, origin of the gems, and other details as on current ownership. Five plates are called "vignettes" because they depict motifs or designs that commonly appear on engraved gems with meanings explained in the text. Some plates are line-engraved, others are stippled in a most delicate and pleasing manner which permits the subtlest of shadings.

DAGLEY, RICHARD & CROLY, GEORGE(1780-1860)

G Croly b Dublin; educ Trinity Coll; ord priest 1804; assigned to London where rector St Stephen's, Wallbrook for many yrs; became a critic, commentator, poet and essayist, noted for being "one of the most voluminous writers of his day" (Allibone lists 30 works!). DNB.

1533. -----1822

Gems, | Principally From The Antique, | Drawn And Etched | By Richard Dagley, | Author Of "Select Gems," Etc. | With | Illustrations in Verse | By | The Rev.George Croly, A.M. | Author Of "Catiline, A Tragedy;" "Paris In 1815," Etc. | [rule] | "Here from the mould to conscious being start | Those finer forms, the miracle of art; | Here chosen Gems, imprest on sulphur shine, | That slept for ages in a second mine." - Rogers. | [rule] | London: | Printed For Hurst, Robinson, And Co.; | And Archibald Constable And Co. Edinburgh. | [taper rule] | 1822.

8°: xx, 52 p; [a]^4, b^4, c^2, B-D^8, E^2; tip-in front engrav pl bearing title in block lett & script with large vignette; 20 engrav pls tip-in in text. Pale blue-gray paper bds, print paper label on spine. 17.8 x 12 cm (7 x 4 3/4 in). Uncut. USGS 34-296, Kunz Coll; JSL.

Cont: 1/2tp; print data; pl; tp; dedic; tab cont; advert; pref; text & pls; notes.

"A union of art and poetry of rare excellence and beauty... exquisite designs of the antique, the tasteful selection and execution of them by Mr.Dagley, and their admirable illustration by Mr.Croly... A preface takes a masterly though very concise view of the leading points in the history of engraved gems" - *The Museum*, New York, 1823 (borrowed from the *London Literary Gazette*). The plates are quite unlike Dagley's previous work above, consisting entirely of line engravings, much magnified, with title under each in script, the source of the gem indicated in the appended notes. On the whole, they are not as carefully drawn and executed and lack the subtle shadings imparted by the stipple technique.

1534. DAHMS, PAUL HERMAN Markasit als Begleiter des Succinit. *Schriften der Naturforschenden Ges zu Danzig*, NF, 8, 1, 1892-4, p 180-200. Not seen: Bock, 1981, p 173.

MINERALOGICAL INVESTIGATIONS OF AMBER

1535. -----1894-1926 Mineralogische Untersuchungen über Bernstein. *Schriften d Naturforsch Ges Danzig*, NF, Bd 8-17, 1894-1926. A series of short papers on many mineralogical, chemical, and other aspects of amber; also issued as separates in plain paper wraps to no 9, thereafter in printed wraps. 25 x 17 cm(9 7/a x 6 5/8 in). Centerstapled, sometimes sewn. References as footnotes.

I Das Klarkochen des Succinit. Bd 8, 3, 1894, p 97-106. Amber immersed in suitable oily liquid at elevated temperature to cause disappearance of small-bubble swarms which decrease diaphaneity.

II Blau und grün gefärbter Succinit. Bd 8, 3, 1894, p 106-111. Causes of blue or green hues sometimes observed in amber.

III Ueber Farbenerscheinungen an fluorescirenden Bernsteinarten. Bd 8, 3, 1894, p 111-114. Fluorescent colors in amber. I-III issued sep 18 p.

IV Weitere Notizen über das Klarkochen des Succinit. Bd 9, 2, 1897, p 1-8. Further notes on clarification of amber by cooking in oil.

V Klaren des Succinit auf trockenen Wege. Bd 9, 2, 1897, p 8-19. Clarification of amber by dry methods.

VI Ueber eine alte Methode der künstlichen Trübung des Succinit. Bd 9, 3-4, 1898, p 164-177. An old formula for cooking amber to render it cloudy to white in color was tried and failed. Issued sep 14 p.

VII Ein Beitrag zur Constitutionsfrage des Bernsteins. Bd 10, 2-3, 1901, p 243-57, fold pl. Compares analyses of ambers from many places; also issued sep 15 p.

VIII Über den Brechungsquotienten des Succinit und einige Erscheinungen, die sich bei der künstlichen Behandlung dieses Bernstein zeigen. Bd 11, 4, 1906, p 25-49. Details on refractive indices, specific gravities, etc of ambers. Issued sep, same pagination.

IX Über Rumanit und Succinit Bd 12, 2, 1907, p 1-30. Properties of rumanite and succinite compared in detail. Issued sep, same pagination.

X Über geschichteten und achatarteeigen Succinit. Bd 13, 3-4, 1912 p 175-243. Describes features of layered and banded or agate-like amber. Issued sep p 1-24.

XI Verwitterungsvorgänge am Bernstein. Bd 13, 1914, p 175-243. Weathering(surface alteration) effects in amber.

XII Bernsteintropfen. Bd 15, 1919, p 1-42. Drop-like forms in amber.

XIII Schwarzharz und Ostseebernstein. Bd 15, 1921, p 57-68.

XIV Über perlschnurähnliche Einschlüsse im Bernstein. Bd 15, 1921 p 78-88. Beadlike inclusions in amber.

XV Ambra und Bernstein. Bd 17, 1926, p 15-29. Discusses the confusion in literature between ambergris and amber.

Contributions XI-XV rev by K Andrée in *Bernstein-Forschungen*, 1, 1929, p 147-9.

END MINERALOGICAL INVESTIGATIONS

1536. -----1901 Ueber das Vorkommen und die Verwendung des Bernsteins. *Zs prakt Geol*, Berlin, Jg 9, H 6, 1901, p 201-16, figs 59-61(cross sect, map). General remarks on succinite amber, organic inclusions, types of amber & trade designations, origin of organic inclusions, where amber is found, other fossil resins, geol of Baltic deposits, other European sources, list of specific amber-producing areas in W Prussia, economics & statistics of mining & trade, processing of amber and its products. Very terse, informative.

1537. -----1920 Über rumänischen Bernstein. *Centralblatt Min, Geol, Paläont*, Stuttgart, 1920, p 102-18. Rumanite similar to succinite in respect to deposits, physical & chemical properties, etc. Rev O.Pratje, *Bernstein-Forschungen*, H 1, 1929, p 165. Not seen.

1538. -----1922 Hohlräume und Wassereinschlüsse im Bernstein. *Centralblatt Min, Geol, Paläont*, 1922, p 327-35, 353-63. Cavities in amber caused by previous inclusions of animal/plant remains, some of which gave off gases to form bubbles which still remain. Notes other types of inclusions and origin discussed. Rev K Andrée, *Bernstein-Forschungen*, H 1, 1929, p 146-7; not seen.

1539. -----1925 Über die künstliche Klärung des Bernsteins. *Schriften der Physikalische-Ökonomische Ges zu Königsberg i Pr.*, Bd 64, 1925, p 17-29. Artificial clarification of amber; historical review of practise; current methods; origin of discoidal, brilliantly-reflective fractures in clear amber("Sonnenflinten"). Detailed rev K Andrée, *Bernstein-Forschungen*, 1, 1929, p 162-3.

DAKE, HENRY CARL (1896-1969)

Dentist, mag publ; DDs from North Pacific Coll; ca 1923 became interested in mineralogy & allied fields; founded & edited *The Mineralogist*, Portland, OR in 1933, later sole owner to 1960; important and influential in spurring popular interest in earth sciences, esp in Pacific Northwest states. Obit *Gems & Min Mag*, no 387, Dec 1969, p 10; *Lap J*, 23, 9, 1969, p 1285; *Min Rec*, 7, 4, 1976, p 1601, portr.

1540. -----1938

[double rule] | Oregon State Department Of Geology And Mineral Industries | 704 Lewis Building [orn] Portland, Oregon | [rule] | Bulletin No.7 | The Gem Minerals of Oregon | Dr.H.C.Dake | 1938 | [state seal] | [rule] |...[2 lines]...| [double rule] | Price Ten Cents [The last line does not match type style of remainder and may have been added after first issue]

Edgestapled: [2], 16 p; 13 photos on 3 glossy f bound-in. Tan, pebbled heavy paper, title on cover(sans price); pale gray cloth spine covering. 27.6x 21.3 cm(10 7/8 x 8 3/8 in). Cut. JSL.GS 33-92.

First systematic and competent review of Oregon's gemstones with remarks on production, industry, mining, cutting, gem-producing districts, etc, followed by remarks on diamond, gold, cinnabar, pyrite, cobaltite, quartz, rock crystal, amethyst, numerous varieties of chalcedonic quartz, agate nodules, thundereggs, moonstone, corundum, hematite, feldspar, and others. The plates show a lapidary shop, an agate display, and specimens of cut and rough agates. Very scarce, if not rare.

1541. -----1950

Northwest Gem Trails | A Field Guide For The Gem Hunter, The Mineral | Collector And The Tourist | Includes | Oregon-Washington-Idaho-Montana | and Wyoming | By | H.C.Dake | Editor The Mineralogist Magazine | First Edition - 1950 | Price $2.00 | Copyright 1950 | By The | Mineralogist Publishing Company | 329 S.E. 32nd Avenue Portland 15, Oregon

Centerstapled: 80 p; 8 photos, 6 sketch maps. Pale brown paper wrap, lett title. 23.2 x 15.4 cm(9 1/8 x 6 in). Cut. JSL. LC 50-3214.

Compiles field trip articles previously published in the magazine. With explicit directions, how to dig, what to look for. The gemstones are mostly chalcedonic quartz varieties. Very popular and printed in large numbers, e g, a bright yellow wrap issue, identical.

1542. -----1956, 2nd edit. Bright yellow wrap, 80 p, 22 photos, 9 sketch maps. Same price. Entirely revised & reset. LC 57-16199.

1543. -----1962, 3rd edit, with co-author MACLACHLAN, DON

Northwest Gem Trails | A Field Guide For The Gem Hunter, | Mineral Collector And Tourist | Covering both popular and little known areas of | Oregon · Washington · Idaho | British Columbia | By | H.C.Dake | Editor Emeritus, The Mineralogist | With additional material by | Don MacLachlan | Editor, Gems & Minerals and The Mineralogist | Third Edition | Completely Revised | [logo] | Price $2.00 | Copyright 1962 by Gembooks | Published By | Gembooks | Mentone, California | [caption for cover photo: 3 lines]

Centerstapled: 95 p (first p blank) + [1 blank]p; 28 photos, 21 sketch maps(one is centerfold). Col printed wrap, with photo. 22.8 x 15 cm (9 x 6 in). Cut. JSL. Entirely reset & revised with new material, new sketch map but Montana & Wyoming omitted; Brit Columbia part is brief. LC 62-3476.

1544. DAKE, H C

The Agate Book | Including a Description of Agate Filled Thunder Eggs | A Handbook For The Agate Collector | And Cutter | By | H.C.Dake | Editor The Mineralogist Magazine | First Edition - 1951 | Price $2.00 | Copyright 1951 | By The | Mineralogist Publishing Company | 329 S.E. 32nd Avenue Portland 15, Oregon

Centerstapled: 64 p, 47 photos. Pale brownish-yellow leather-like paper wrap; title in dk green on cover. 23.3 x 15.3 cm(9 1/8 x 6 in). Cut. Also issued in pink wrap; a "Second Printing" in 1957 is identical but is in a bright green wrap.LC 51-324B8.

Highly popular, and deservedly so, this booklet provides the amateur collector and lapidary much fundamental information on one of the most heavily utilized gemstones of all time. Treats history of agate, genesis and physical properties, varieties of agate (a large and detailed section which especially dwells on the abundant materials found in the western United States, with localities mentioned), famous deposits, and an excellent section on the peculiar agate-filled nodules called thunder eggs. The latter contains discussions by several authorities on the origin of the internal features of the nodules and the inclusions in the chalcedonic portions, and includes a short treatise by Georg O Wild and H Biegel of Idar-Oberstein, Germany on how agate is dyed. This booklet now is scarce.

DAKE, H C, see BAXTER, W J

DAKE, H C, FLEENER, FRANK LESLIE(1878-) & WILSON, BEN HUR(1888-1966)

F L Fleener geologist, faculty Joliet Jun Coll; B H Wilson grad Iowa Wesleyan U 1909, M S Drake U 1927; Joliet High School & Junior Coll 1929 to retirement in 1958; Ph D (Hon) Iowa Wesleyan U; prolific writer in earth sciences & education; obit *Lap J*, 26, 7 1966, p 895.

1545. -----1938

Quartz | Family Minerals | A Handbook for the Mineral Collector | By | H.C.Dake | Frank L.Fleener | And | Ben Hur Wilson | New York Whittlesey House London | McGraw-Hill Book Company, Inc. [1938]

8°: xvi, 304, [2 blank]p; front col pl includ in pag even though tipped in; 51 ill. Bright blue cloth, gold lett spine; red dj, resume, vitas, other publ bks. 20.3 x 13.9 cm(8 x 5 1/2 in). Cut. $5.75, orig issued @ $2.75. JSL.

Cont: 1/2tp; pl; tp; publ data; dedic; pref; tab cont; ill list; text tp; 15 chs; append(biblio p 295-6, 35 entries); index; blank f. LC 38-27567.

Enormously popular and still much in demand because of its interesting and uncomplicated presentation of facts and lore on quartz varieties and opal as well as several silica minerals. The greatest emphasis is placed on chalcedonic varieties. Includes historical notes, origin of quartz and opal, crystal structure, crystallography, varieties, remarkable forms, petrified forests, and a short chapter on gem cutting. The numerous varieties of quartz inevitably led to shortened discussions of the scientific aspects and much more space was devoted to discussions of the cryptocrystalline varieties with which the majority of amateur collectors and lapidaries were familiar, thus accounting for its popularity. The frontispiece plate shows an agate nodule that has been sliced, the parts dyed separately, then the whole reassembled with one section still in the original grayish hue. Most illustrations depict chalcedonic varieties in rough and cut forms, also scenes at collecting sites in the West. Rev W F Hunt, *Amer Min*, 23, 12, 1938, p 905, noting "numerous instances" of inaccurate scientific statements. *G & G*, 3, 9, 1941, p 137; R Webster, *The Gemm, 17*, 204, 1948, p 179-80. Numerous printings, different shades of blue cloth. A 7th printing, during WW II on thinner paper of a distinct bluish cast. The 13th (and last?) printing, no date, has a reset title with imprint "McGraw-Hill Book Company, Inc. | New York Toronto London."

DAKE, H C, YOUNG, FRED S (1889-1974) & RENTON, J LEWIS

F S Young, founder Oregon Agate and Mineral Society in 1933; co-founder *The Mineralogist Magazine*; became a mfr of diamond saws.

1546. -----1938

The Art of Gem Cutting | Complete | Dr.H.C.Dake | Fred S.Young | J.Lewis Renton | Copyright, 1938 | The Mineralogist Publishing Company | Portland, Oregon

Edgestapled: 112 p; 46 ill; many adverts in text & on wrap. Pale blue-gray paper, blue lett in green frame on cover. 23.5 x 15.5 cm (9 1/4 x 6 in). $1.00. JSL.

Compiles numerous short articles taken from *The Mineralogist*, vol 4, no 4, April 1938, p 1, 3-96, *passim*, ill. "Much of the...data...are findings of the Gem Cutting Laboratory of The Mineralogist Magazine... some of the information... has appeared... during the past five years." Due to the scissors-and-paste nature of the issue, the presentation lacks order and coherence but it is historically important as being one of the first comprehensive handbooks on lapidary work in which actually useful instructions are given. Despite its faults, this special issue of the magazine sold 6,000 copies and encouraged the preparation of later editions described below.

1547. -----1942, 2nd edit, sans Dake & Renton

The Art of Gem Cutting | Complete | Fred S.Young | Gemmologist | [double rule] | Second Edition 1942 | [double rule] | Price $2.00 | Copyright 1942 | The Mineralogist Publishing Company | Couch Building, Portland, Oregon

Edgestapled: 112 p; 46 ill. Pale red-brown wrap, brown cover lett. 23.5 x 15.2 cm(9 1/4 x 6 in). Cut. Press run 3,000. JSL.

Cont: tp; tab cont; prefs; 13 chs; appends; index.

The text is better organized but no attempt was made to rewrite the work. There is no explanantion for the disappearance of two of the former co-authors.

1548. -----1945, 3rd edit, Dake & Pearl

The Art | Of Gem Cutting | Complete | By | Dr.H.C.Dake | Editor, The Mineralogist Magazine | and | Richard M.Pearl | Certified Gemologist, Gemological Institute of America, | Associate, Gemological [sic] Association of Great Britain | [orn] | Price $1.50 | Copyright, 1945 | By the | Mineralogist Publishing Company | 329 S.E. Thirty-second Avenue, Portland 15, Oregon

Edgestapled: 128 p; 70 ill. Bright yellow wrap, dec. 23.5 x 15.5 cm (9 1/4 x 6 1/8 in). JSL.

Cont: tp; tab cont; pref; gem cutting as a hobby; 4 parts; index. The fact that this is the 3rd edit appears on wrap & in pref but not on tp. Adds more materials, including a 4th part on special lapidary treatments and a large miscellany. Rev V A Hinton, *G & G*, 5, 2, 1945, p 236. For biogr data on Pearl see under his name.

A second printing appeared in 1945, with reset tp, also major headings, and "Second Printing" inserted on tp beneath the price. JSL.

1549. -----1949, 4th edit Dake alone

The Art of Gem Cutting | Complete | Fourth Edition | By | Dr.H.C.Dake | Editor, The Mineralogist Magazine | Price $2.00 | Copyright, 1949 | By the | Mineralogist Publishing Company | 329 S.E. Thirty-second Avenue, Portland 15, Oregon

Edgestapled: 128 p; 95 ill. Same wrap. 23.5 x 15.1 cm(9 1/8 x 6 in). LC 50-635. JSL. LC 50-635.

Cont: tp; advert; tab cont; pref; gem cutting as a hobby; 5 parts; index.

Again enlarged with recent developments appearing in the magazine now inserted in appropriate places. The five parts now cover cabochon work, faceting, gemology, special lapidary techniques(spheres, pitch laps, engraving gems, bedside gem cutting), and useful lapidary notes.

1550. -----1954, 5th edit

The Art of Gem Cutting | Complete | Fifth Edition |...| Price $2.00 | Copyright 1954...

Edgestapled: 128 p; 100 ill. Bright red wrap. 23.3 x 15.4 cm(9 1/8 x 6 in). LC 54-26977. JSL. LC 54-26977.

Some new information added in last part; some reorganization; no index.

1551. -----1956, 6th edit

The Art of Gem Cutting | Complete | Sixth Edition |...| Price $2.00 | Copyright 1956 |... [2 lines]...| 329 S.E. Thirty-second Avenue, Portland 14 [sic], Oregon

Centerstapled: 128 p; 104 ill. Bright red wrap. 22.9 x 15.4 cm (9 x 6 in). JSL.

Again reorganized in places, some material removed but newer findings included; the last edition.

1552. DAKE, H C & DE MENT, JACK ANDREW(1920-)

Fluorescent Light | And Its Applications | Including Location And Properties Of Fluorescent | Materials...[sic] A Theoretical And Practical | Exposition Of Fluorescence And Similar Phenomena. | By | H.C.Dake | Editor, The Minerologist [sic] Magazine | Co-Author, Quartz Family Minerals | Honorary President, Northwest Federation of Mineral Societies | and | Jack De Ment | Associate Editor The Minerologist Magazine | Research Chemist, The Minerologist Laboratories | [logo] | 1941 | Chemical Publishing Co., Inc. | Brooklyn, N.Y.

8°: xiii (first 2 p blank), [1 blank], [1], [1 blank], 256 p; 25 fig. Dk blue pebbled cloth, gilt spine, pale blue endp. 23 x 15.3 cm(9 x 6 in). Cut. $3.00. Reprinted in smooth blue cloth, 21.7 x 14.1 cm(8 1/2 x 5 1/2 in). Cut. JSL. LC-9037.

Cont: blank f; 1/2tp; tp; publ data; tab cont; pref; ill list; text tp; 11 chs; biblio(p 226-46, ca 600 entries); tab of elements; indexes.

An interesting exposition for the general public on luminescence, especially that produced by ultraviolet wavelengths. Treats history, investigations, nature of radiations, role of the eye in detection and classification, kinds of luminescence, theories, methods of examination, techniques, sources of UV, fluorescent minerals, radioactive minerals, luminescence in gems (p 149-58), notable collections of fluorescent minerals, uses of UV in arts and industry. Provides one of the earliest systematic descriptions of fluorescence in minerals and gems. The extensive bibliography is scarcely useful to the casual reader and is aimed at future investigators of luminescence phenomena. For biogr notes on De Ment see under his name.

DAKIN, WILLIAM JOHN(1883-1950)

Brit zoologist; DSc 1910; prof biol U West Australia 1913-20; prof zool Sydney U from 1929, pres Roy Soc W Austral 1913-15.

1553. -----1913

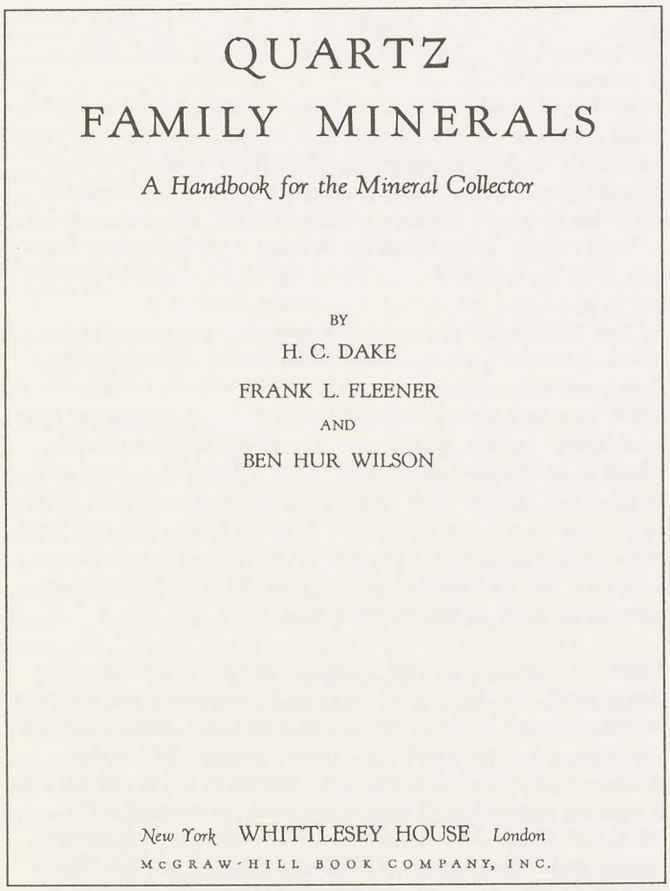
Pearls | By | W.J.Dakin | D.Sc., F.L.S. | Professor of Biology | University of Western Australia | Perth | Cambridge: | at the University Press | 1913 [title in elab woodcut frame taken from an early Cambridge printer, John Siberch, 1521] ["Cambridge Manuals of Science and Literature"]

8°: vi, [2], 143, [1]p; [4]p advert; 4 photos, 8 line drawings, tab, 2 diagrs. Pink cloth, title in same frame on cover; lett & Cambridge seal on spine. Dj with shell photo. 16.2 x 12 cm(6 3/8 x 4 3/4 in). LC 14-494; JSL.

Cont: ser & 1/2tp; publ data; tp; publ data; pref; tab cont; ill list; 10 chs; biblio (13 entries, annot); gloss; index; advert.

Excellent short survey of current knowledge of the pearl, beginning with history, the natural history of the pearly mollusks, properties of pearls, Ceylon pearl fishery, other fisheries, origin of pearls, and two chapters on pearls in jewelry, curious lore, trading in pearls, etc.

1554. DALBERG, KARL THEODOR, Freiherr von(1744-1817) Ueber die Brauchbarkeit des Steatits zu Kunstwerken der Steinschneider. Erfurt: Beyer & Maring, 1800, 8°: 20p. Not seen; from Jonathan A.Hill, NYC, Cat 11, 1983, p 19: "First edition. A very rare work... paper read before the Academy of Sciences at Erfurt on 2 Oct. 1799. Dalberg... archbishop and Elector of Mainz, wrote other works on mathematics, chemistry, and meteorology... Not in N.U.C. Poggendorf, I, 510. For more on Dalberg and artificial steatite, see E.Stenger, A.Nat., 1928, xi, pp.92-119."


QUARTZ
FAMILY MINERALS
A Handbook for the Mineral Collector
BY
H. C. DAKE
FRANK L. FLEENER
AND
BEN HUR WILSON
New York WHITTLESEY HOUSE *London*
McGRAW-HILL BOOK COMPANY, INC.

1545. Titlepage to an enormously popular work on the many varieties of quartz and with much on agate and other forms of chalcedony

1555. DALE, THOMAS NELSON(1845-1937) The commercial marbles of western Vermont. *USGS Bull* 521, 1912, 170, [6 blank]p; 17 pls (4 col maps & sects, 2 fold), 23 fig. Printed wrap. JSL. Describes attractively colored marbles and some serpentines, along with general remarks on marbles, mineralogy, deposits, quarrying, plus other data such as to make this paper almost a complete treatise on the subject. Biblio, p 55-60; glossary. GS 13-70.

DALI, SALVADOR (1904-)

Span surrealist painter; b Figueras, Catalonia; early affiliated himself with schools of ultramodern painting; fiery, controversial, imaginative, fond of publicity, but withal, enormously skilled in his craft; perhaps most famous for his surrealistic paintings in which "limp" watches are featured; major collection of his works St Petersburg, Florida.

1556. -----1959

Dali | A Study of his Art-in-Jewels | The Collection Of | The Owen Cheatham Foundation | Foreword By A.Hyatt

Mayor | Comments and Captions by the Artist | Edited by Lida Livingston | The New York Graphic Society | Greenwich. Connecticut [1959]

4°: 67, [1 blank], [1], [3 blank]p; 1 b&w photo pls(of Dali) + 24 col photo pls, all cut-out & mounted. Mottled ivory paper bds, "Dali" sig in gold on cover; black cloth spine & gold lett. 28 x 22 cm(11 x 8 5/8 in). Cut. In similar paper-covered slip-case, title & large col photo of Dali's jeweled eye on cover. JSL.

Cont: 1/2tp; tp; publ data; tab cont; fwd; Dali portr; comments on the jewels; ills; pls (with captions facing); descriptive index; blank p; note on the Foundation; 3 blank p.

The 28 thoroughly remarkable jewels were "executed by Alemany & Company in closest collaboration with Salvador Dali," and were acquired by the Owen Cheatham Foundation in 1958. The collection was formed with the view of sending it to exhibitions where it could be used to raise funds for charity, which is the purpose of the Foundation. The color plates are magnificent and depict in close detail the various objects, some in precious metals ornamented with gems, others utilizing large masses of rough gem materials with jeweled ornamentation or sculpture, and all executed in "obviously Dali" style. They are among the most famous of all jewels.

1557. -----1965, new edit Titlepage identical, as before sans date [1965]. 4°: 74, [1], [1 blank]p; 27 col photo pls, cut-puts as before; same binding, lett, p size, paper, etc., except as noted. No slipcase was provided. JSL. New copyright date added; statement of Foundation aims now moved to p [75] along with a note on acquisition of three new jewels, numbered XXIX, XXX, and XXXI. After publication, the collection was further augmented by two jewels, XXXII and XXXIII, entitled "The Falling Angel," designed in 1959, and "Daphne," designed in 1966. These are depicted and described on doubleleaves of matching paper, type, etc. as in the text, but supplied loose. If these were bound into a future edition, the text would be increased by 8 pages.

1558. DALL, WILLIAM HEALEY(1845-1927) Pearls and pearl fisheries. *Amer Naturalist*, 17, 6, 1883, p 579-86; 7, p 731-45. Not seen: G.Ranson; Kunz & Stevenson, *Bk of the Pearl*, bibliogr.

1559. DALLAS, W S IX.- On the natural history of the Cingalese pearl oyster and on the production of pearls. Derived from Dr Kelaart's "Introductory report on the natural history of the pearl oyster of Ceylon," and from "Die echten Perlen, ein Beitrag zur... geschichte derselben," by Dr Karl Möbius, Hamburg, 1857. *The Annals and Mag of Nat Hist*, London, ser 3, 1, 2, 1858, p 81-100. JSL. Discusses Kelaart's mission to investigate the Ceylon pearl oyster and environment in order to better manage the fishing and realize a greater income, with remarks on his results, and much on speculations and investigations into the origin of the pearls themselves.

1560. DALLOZ, PAUL Musée national du Louvre [Paris]. Galerie d'Apollon. Le trésor artistique de la France. Ire série. (Notices par: Paul de Saint-Victor, Maxime du Camp, Georges Berger, G Lafenestre, Garnier, Falize, Louvrier de Lajolais, Paul Mantz, etc) Paris, *Moniteur universel*(s.d.), 2 vol, 2°, plates in polychrome. Not seen, from Marquet De Vasselot, *Biblio de l' Orfèvrerie*, p 53.

1561. DALMAN, JOHANN WILHELM. Om insekter inneslutne i copal; jemte besckrifning på några deribland förelommande nya slägten och arter. 8°. Stockholm. 1826. (*Kongliga Vetenskaps-Academiens Handlingar*, Stockholm, 1825, p 275-411, tab 5). 8°. Stockholm. 1826. Not seen; from Scudder *Biblio Fossil Insects*, p 98, also: "describes several new genera and species of insects found in African gum copal."

DALMAN, J W, see LOWN, C & BOOTH, H

1561A. DALTON, Sir CORNELIUS NEALE(1842-) The life of Thomas Pitt... Cambridge, England: The University Press. xii, [2] + 611 p; pls; portr; plan. 1915. "Essential for a study of the history of the pitt or Regent diamond." Not seen; from notes in Kunz Coll, USGS Libr.

DALTON, ORMONDE MADDOCK(1866-1945)

Brit archeologist; b Cardiff; educ Harrow and Oxford; to Brit Mus in 1895; assist Keeper(1909) and Keeper, Dept Brit & Mediaeval Antiquities in 1921; F Roy Anthropol Inst 1895; edited its journal 1896-7; F Soc Antiquaries 1899; prolific writer of large & imp works in his field. Sir Augustus Wollaston Franks, b Geneva 1826; educ Eton and Cambridge; to Brit Mus 1851, eventually Keeper, Brit & Med Antiqu; many honors, includ K C B; produced a number of important publications; d London 1897.

1562. -----1912

Franks Bequest | Catalogue | Of The | Finger Rings | Early Christian, Byzantine, Teutonic, | Mediaeval And Later | Bequeathed By | Sir Augustus Wollaston Franks, K.C.B. | In Which Are Included | The Other Rings Of The Same Periods In The Museum | By | O.M.Dalton, M.A. | Assistant Keeper Of The Department Of British And Mediaeval | Antiquities And Ethnography | London | Printed By Order Of The Trustees | Sold At The British Museum | And By Longmans & Co., 39 Paternoster Row | Bernard Quaritch, 11 Grafton Street, New Bond Street, W. | Asher & Co., 14 Bedford Street, Covent Garden | And Henry Frowde, Oxford University Press, Amen Corner | 1912 | [All rights reserved]

8°: lvii, [1 blank], [2], 366, [2 blank]p + 30 photo pls on as many tissued bound-in f; each photo on a panel of pale tan; 17 numbered fig in introd; 350 unnumb text fig; 3 tab. V dk blue cloth, blind cover frames, blind rules & gold lett spine. Dk gray endp. 24.8 x 18.4 cm(9 3/4 x 7 1/4 in). Cut. JSL.

Cont: 1/2tp; print data; tp; pref; tab cont; pls list; biblio(p xi-ii, 36 entries); introd; catalog; addenda; length conversion tab; relative wgts tab; indexes; blank f; pls.

"The present publication is officially the complement of the Catalogue of 1907 written by Mr.F.H.Marshall...[*Cat Finger Rings, Greek, Etruscan*, etc, which see]." The treatise therefore does not include rings covered by Marshall's catalog. It is, however, a large and elaborate publication, richly illustrated with excellent plates, mainly depicting & describing the Franks specimens but including others appropriate to the periods covered. The introduction provides a valuable precis of the origin, development, symbolism, etc of rings, and by itself forms an excellent monograph. The catalog is richly annotated and illustrated by numerous small cuts of rings of all types and uses, eg, religious rings, signets, amulets, love and marriage rings, inscribed rings, and others, all of which provides a useful survey of the multifarious purposes to which these small objects were put. Engraved gems figure prominently in signets but are seen in other classes, especially in rings used primarily for ornament. The text includes

tables for converting English inches to millimeters and English grains into French grammes. Scarce and much in demand.

1563. -----1912

Fitzwilliam Museum | McClean Bequest | Catalogue | Of The | Mediaeval Ivories, Enamels, Jewellery, | Gems And Miscellaneous Objects | Bequeathed To The Museum | By Frank McClean, M.A., F.R.S. | By | O.M.Dalton, M.A. | Cambridge: | at the University Press | 1912

8°: [8], 132p; 27 pale sepia pls on heavy paper, hinged & bound-in at end. Dk gray cloth, gold arms on cover, gold lett & univ shield on spine. 26.8 x 17.8 cm(10 1/2 x 7 in). Teg. JSL.

Cont: 1/2 tp; publ data; tp; publ data; pref; tab cont; pls list; introd; catalog; index; pls (an erratum slip inserted for Pl II).

The introduction includes excellent discussions of jewelry, p 5-16, and ivory, p 16-32. The catalog richly annotated, jewelry items being described with engraved gems on p 78-84, ivory carvings, p 84-99, and several jade carvings on p 122-8. Excellent photo pls. Scarce.

1564. -----1915

Catalogue | Of | The Engraved Gems | Of The | Post-Classical Periods | In The Department Of | British And Mediaeval Antiquities And Ethnography | In The | British Museum | By | O.M.Dalton, M.A. | Assistant-Keeper Of | The Department | London | Printed By Order Of The Trustees | Sold At The British Museum | And By Longmans And Co., 39 Paternoster Row | Bernard Quaritch, 11 Grafton Street, New Bond Street, W. | Asher And Co., 14 Bedford Street, Covent Garden | And Humphrey Milford, Oxford University Press, Amen Corner | 1915 | [All rights reserved]

4°: lxxvii, [1 blank], [1], [1 blank], 180, [1], [1 blank]p; several hundred photos printed recto on 37 thick paper pls, each cloth-hinged & bound-in; front photo pl of a cameo, tissued, tip-in; 103 text fig. Bright red cloth, blind frames on covers, blind rules & gold lett spine. 28.1 x 21.9 cm(11 1/8 x 8 5/8 in). Cut. LC 16-2614; JSL.

Cont: 1/2tp; print data; pl; tp; pref; tab cont; pls list; biblio (p x-xii, 45 entries); introd; catalog tp; catalog; inscriptions index; gem engravers index; author index; pls tp; pls.

One of the finest and most informative engraved gem catalogs ever published and notable not only for the descriptions in the catalog but perhaps more so for the introductory matter. This discusses the history of the collection, especially important gems, gem materials, lapidary technique, casts of gems, history of gem engraving in detail (with much on celebrated engravers), inscriptions on gems, engraved gems as related to other arts, and the uses of engraved gems. By itself, this introduction would form an excellent introductory monograph to the subject. The catalog of 1139 gems presents them in chronological order in the broad categories of intaglios and cameos. The frontispiece plate in dark brown photogravure depicts a fine cameo of Queen Elizabeth I. Text figures of interest include Abraham De Goorle-(Gorlaeus) portrait and Mariette's famous engraving of a gem engraver at work at his bench. The high quality plates depict actual gems in natural size. Scarce, and much in demand.

1565. DAMIGERON (fl 2nd cent BC)

A shadowy figure about whom extremely little is known but to whom is ascribed a lapidary, fragments of which are incorporated in other works as in De Mély & Ruelle, *Les Lapidaires de l'Antiquité et du Moyen Age*, Tome 2, 1898, in which a text in Greek, p 125-33, extracted from fragments contained in the *Geoponica* and the *Recueil médical* of Aetius(p XIII). The first is a collective work on agriculture dated to the early Middle Ages according to Thorndike, *A History of Magic*, 1, p 604-5, in which "something is said of the marvelous properties of gems." Presumably these are the same extracts used by De Mély & Ruelle. The second work, by Aetius of Amida(fl end of 5th cent-6th cent AD), again according to Thorndike, p 569 ff, is a medical treatise incorporating prescriptions for medicines, some using stones as ingredients. De Mély & Ruelle provide Greek texts only. In 1881, Eugen Abel published his *Orphei Lithica* combined with *Damigeron De Lapidibus*, which see under ORPHEUS, the Damigeron portion on p 155-95. Not much can be said about the content of Damigeron except that it repeats most of the basic facts known about gemstones at the time with the usual heavy larding of curious lore.

DAMIGERON, see HALLEUX, R, 1974; also ORPHEUS, 1881 & 1971.

1566. DAMMER, BRUNO & TIETZE, OSKAR

Die | Nutzbaren Mineralien | mit Ausnahme der | Erze, Kalisalze, Kohlen und des Petroleums | von | [left:] Dr.Bruno Dammer | Bezirksgeologen | an der Kgl.Geologischen Landesanstalt | in Berlin | und | [right, on same level:] Dr.Oskar Tietze | Landesgeologen | an der Kgl.Geologischen Landesanstalt | in Berlin | Mit Beitragen von |...[5 lines]...| Zwei Bande. | I [-II]. Band. | Mit 57[-93] Abbildungen. | [logo] | Stuttgart. | Verlag Von Ferdinand Enke. | 1913[-1914].

8°: Vol I: XV, 501 p; 57 fig(maps, photos), many tab; Vol II: XII, 539, [1 blank], [4 advert]p; 93 fig,many tab. V dk blue unfin cloth, white titles on cover panels & spines; black charcoal-type endp; ae stained dk blue. 24.3 x 16 cm(9 1/2 x 6 1/4 in). Cut. Also in orange printed wrap: 25.3 x 16.5 cm(10 x 6 1/2 in), unopened, uncut. 16.40 Mk/vol cloth; 15 Mk in wrap. LC 13-21301; JSL.

Cont: Vol I: tp; publ data; fwd; tab cont; ill list; text; blank p. Vol II: same, but with an index to both vol; blank p; advert.

Survey of world mineral resources but excepting ores, potassium salines, coal, and petroleum. Each substance is described mineralogically, deposits located and described, uses given, and, in most instances, production statistics provided. Much material is included on gemstones and ornamental stones: Vol I diamond, p 1-57; quartz & varieties, 132-81; opal, 187-95; zircon, 212-3; corundum gem varieties, 231-42; calcite onyx, 431-6. Vol II contains short sections on alabaster, variscite, turquoise, lazulite, andalusite, kyanite, topaz, staurolite, euclase, tourmaline, axinite, zoisite, epidote, idocrase, iolite, olivine, phenakite, dioptase, garnet, beryl, diopside, spodumene, jadeite, rhodonite, nephrite, cancrinite, sodalite, lapis lazuli, feldspars, prehnite, meerschaum, amber & amber-like resins, the latter in large sections. A high quality treatise, in very good detail, and in its day enjoying an excellent reputation; it is still a useful reference. Unfortunately, there is no collected bibliography and only a few references are scattered throughout the text but the foreword states, that in respect to gemstones, much was incorporated from Bauer's *Edelsteinkunde*, 1909 and A Eppler's *Die Schmuck- und Edelsteine*, 1912, both very complete and very reputable references.

1567. -----1927-1928, 2nd edit

Die | Nutzbaren Mineralien | mit Ausnahme der | Erze und Kohlen | von | Dr.Bruno Dammer und Dr.Oskar Tietze | Zweite, neubearbeitete Auflage | Unter Mitwirkung von |...[11 lines]...| bearbeitet von | Prof.Dr.Bruno Dammer | Landesgeologen | Zwei Bande | [rule] | I [-II]. Band | Mit 66[128]

Abbildungen | [logo] | Stuttgart | Verlag Von Ferdinand Enke | 1927[-28]

8°: Vol I: XIX, [1], 554, [2 advert]p; 66 ill; Vol II: XV, 785, [3 advert] p; 128 ill. Pale brown unfin cloth, blind frame & black title on cover, also spine. Dk brown endp. 24.1 x 15.8 cm(9 1/2 x 6 1/4 in). Vol II slightly narrower: 15.6 cm. USGS GS 28-275> JSL.

Cont: Vol I: tp; publ data; dedic; fwds; tab cont; ill list; periodical abbreviations; text; advert. Vol II: tp; publ data; tab cont; ill list; period abbrev; blank p; text; index of minerals according to uses; subj index; advert.

Vol I diamond article, by Heinrich Lotz, p 1-62; quartz, 138-96; opal, 196-223; zircon, 223-31; corundum, 244-55; spinel, 365-67; chrysoberyl, 369-71; brief mentions of other species. Vol II many short articles generally filling the space between p 173-345, but gemstones also appear on some later pages. The extensive article by Kaunhowen on amber is now on p 467-525 and jet, 744-46.

DAMOUR, AUGUSTIN-ALEXIS (1808-1902)

Fr civil servant, mineralogist; stud law; in Fr Ministry of Foreign Affairs; devoted much of spare time to study of mineralogy; 1844 began publ articles in Fr scient journals, his work almost completely confined to analyses of rocks & minerals, esp hard stones used in primitive artifacts. *Dict Biogr Fr*, 10, 60; Pogg 1, 515, 3, 322-3; 4, 294. Obit P Termier, *Bull Soc Géol Fr* ser 4, 3, 1903, p 375-82. See also "Notice des travaux minéralogiques de.." Paris: Impr. Mallet-Bachelier, 1848, 7 p; also 1857 & 1858, 16 p; Paris: Gauthier-Villars, 1871, 22 p. H Fischer, *Nephrite u Jadeit*, 2nd edit, 1880, p 231-40, commented at length on Damour's early papers on jades in artifacts and his first chemical & properties distinction between jadeite and nephrite as published in *Comptes-rendus*, Paris.

1568. -----1878 Notice sur la distribution géographique des haches et des autres objets préhistoriques en jade, nephrite et jadeite. *Revue Archéologique*, Paris, ns, 36, 1878, p 12-32. Not seen.

1569. -----1881 Nouvelles analyses sur la jadéite et sur quelques roches sodifères. *Bull Soc Fr Min Crist*, 4, 1881, p 157-64. Jadeites from Asia, Mexico, and Europe. JSL.

1570. DANEU, ANTONIO

L'Arte Trapanese | Del Corallo | Di Antonio Daneu | 40 Tavole a colori | 32 Tavole in nero | 32 Illustrazioni nel testo | Banco Di Sicilia | Fondazione Ignazio Mormino - Palermo [1964; first 2 lines in red]

Cementb: 176, [6]p + [55] f (plates)+ [l]f; front col pl; 39 col pls; 32 b&w pls; 32 fig. The b&w pls on semi-glossy stock, col pls on thicker, smoother paper of a faint yellowish cast. Coral-col cloth-type paper bds; gold lett on cover & spine; col dj (col photo). 28.9 x 23 cm(11 3/8 x 9 in). L 18,000. JSL.

Cont: 1/2tp & col pl; tp; publ data; pref; introd; 6 chs; documents & citations; catalog & descriptions of 321 objects; biblio; index of artisans; index of object types; col pl index; b&w pl index; tab cont; ackn; photo credits; pls section tp; pls(col followed by b&w); publ data.

Trapani, a Sicilian province at the western end of that island, has long been the center of a thriving coral-fishery and manufacturg. The present book examines in detail the history of coral in the arts as practised from antiquity to the present day by the Trapanese artisans. An introductory chapter briefly describes early views on the nature of coral, its unique value as a material for manufacture of amulets and talismans, its applications in figures and statuary, and its many mentions in literature and in art. The second chapter, particularly informative, is devoted to the coral fishery, again exploring its early history, describing the vessels used, the equipment and its manipulation, recovery of coral, entrepreneurs, and a brief description of the working up of coral into its various finished forms. Several succeeding chapters discuss epochs and monuments in the art of working coral, notable artisans and their productions, styles of work, etc. Important collections containing coral objects form another chapter, and is followed by a chapter on documents and citations, mainly as inventories of collections in which coral is prominent. The catalog of coral objects briefly but adequately describes 321 items from many European collections, many of which are depicted on the plates in astonishing variety: jewelry, decorations using coral, religious objects, caskets, boxes, and the like, also shrines, picture & mirror frames, and many others. A most valuable and informative treatise. Rev *J Gemm* 12, 8, 1971, p 364.

1571. DANIEL, G L Tumbling techniques. A guide to tumble polishing. A consensus of finding. Edited and compiled by G.L.Daniel. First edition. Lowell R. Gordon, P.O.Box 4073, Long Beach, California, 1957. Centerstapled: 16 p, ill. A 2nd edit was publ in 1969, 60 p, ill. 20.9 x 13.5 cm(8 1/4 x 5 3/8. in). $1.50. JSL. A full guide in easily understandable terms on how to select rough, process it, then tumble it rotating barrels to produce polished baroque stones with instructions on making jewelry with same.

1572. DARBOUX, G, COTTE, C, STEPHAN, P & GAVER, F VAN. L'industrie des pêches aux colonies. (Nos richesses coloniales 1900-1905). Exposition Coloniale de Marseille 1906, Marseille, Barlatier Imprimeur-Éditeur, 1906, 2 vol. Not seen: ref G Ranson, nacre & pearls in vol 1, p 128-79; nacre in vol 2, p 372-84.

D'ARCET or DARCET, JEAN(1725-1891)

Fr physician, scientist, polymath; b Douazit; prof in Coll de France; succeeded Maquer as dir of Sévres porcelain works and Gobelin tapestry factory; credited as first to make true porcelain in France; assayer to the mint; made improvements in manufacture of chinaware, soap, salt; showed diamond to be combustible; invented an alloy similar to Wood's metal; stud geol of Pyrenees. *World Who's Who in Sci*, 408; *Biogr Univ*, 10, 544-6; Pogg 1, 521; Duveen 157; Ferguson I, 40; DSB 3, 560-1. Précis historique sur la vie et les travaux de... Paris: Impr. Gillé, an X, 26 p.

1573. -----1766

Memoire | Sur L'Action | D'Un Feu Egal Violent, | Et continué pendant plusiers jours sur un | grand nombre de Terres, de Pierres & de | Chaux Métalliques essayées pour la plu- | part telles quèlles sortent du sein de la | Terre. | Lu à l'Académie Royale des Sciences les 16 & 28 | Mai 1766. | Par M.D'Arcet, Docteur Régent de la | Faculté de Medecine de Paris. | [orn] | A Paris, | Chez P.G.Cavelier, Libraire, rue | Saint Jacques, au Lys d'or. | [double rule] | M.DCC.LXVI. | Avec Approbation & permission.

8°: 122 p; A-G^8, H^5(2 copies examined had only 5 f in the last gathering). Ch orns. 19.5 x 12.4 cm(7 5/8 x 4 7/8 in). Cropped. USGS Kunz Coll, GS 33-245.

Cont: tp; advert; text; extract from record of Roy Acad Sci(p 108-22).

Reports Darcet's initial experiments on the fusibilities of various mineral substances as talc, carbonates, gypsum, etc, and

laying the foundation for further experiments on gemstones, among other minerals, as described below. This series of experiments established the effects of heat upon various substances and was a celebrated achievement; it carried on previous experimentation along the same lines by J H Pott, which see, and provided the basis for the establishment of the porcelain industry in France.

1574. -----1771, 2nd mémoire

Second Mémoire | Sur L'Action | D' Un Feu Égal, Violent, Et Continué Pendant Plusiers Jours, | Sur un grand nombre de Terres, de Pierres | & de Chaux Métalliques, essayées pour | la plupart telles qu'elles sortent du sein | de la Terre. | Lu à Académie Royal des Sciences les 7 | & 11 Mai 1768. | Par M.D'Arcet, Docteur Regent de la | Faculté de Médecine de Paris. | [orn] | Paris, | Chez P.G.Cavelier, Libraire, rue | Saint Jacques, au Lys d'or. | [triple rule] | M.DCC.LXXI. | Avec Approbation & Permission.

8°: vj, 170 p; a^3, A-K^8, L^5; same size. USGS Kunz Coll, GS 33-246.

Cont: tp; advert; text; extracts(p 93-103), Mémoire Sur Le Diamant, Et Quelques Pierres Précieuses Traitées Au Feu,"(p 105-62); extr, p 163-70.

In this series of fusibility experiments, Darcet tested a "pseudo amethyst," probably a corundum, and "pseudo hyacinths," which seem to have been zircons inasmuch as a red variety lost all color; all proved to be infusible. Others tested included agates, jaspers, alabaster, marbles, serpentine, jade, porphyry granite, malachite, lapis lazuli, flint, "false emerald," probably fluorite, and what appear to be several beryls. However, the notable portion of this paper dealing with his experiments on the combustibility of diamond brought his work to the notice of the scientific community because he was able to demonstrate, before witnesses, that diamond lost weight due to burning and thus clearly established that it was not indestructible. A detailed summary of the diamond experiments appeared in the *J d'Observations sur la Physique sur l'Histoire Naturelle*, etc, of Abbé Rozier, below. Excerpts appeared also in *Crells Chemisches J*, T 6, p 148-79.

DARCET, J & ROUELLE, HILAIRE-MARIN(1718-1779)

H-M Rouelle was younger brother of Guillaume-François R (1703-1770), noted Fr chem & innovator; he worked with his elder brother in their lab in Rue Jacob, Paris; chem demonstrator in Jardin Du Roi 1768; after brother's death, he began teaching chem & pharmacy. DSB 11, 564.

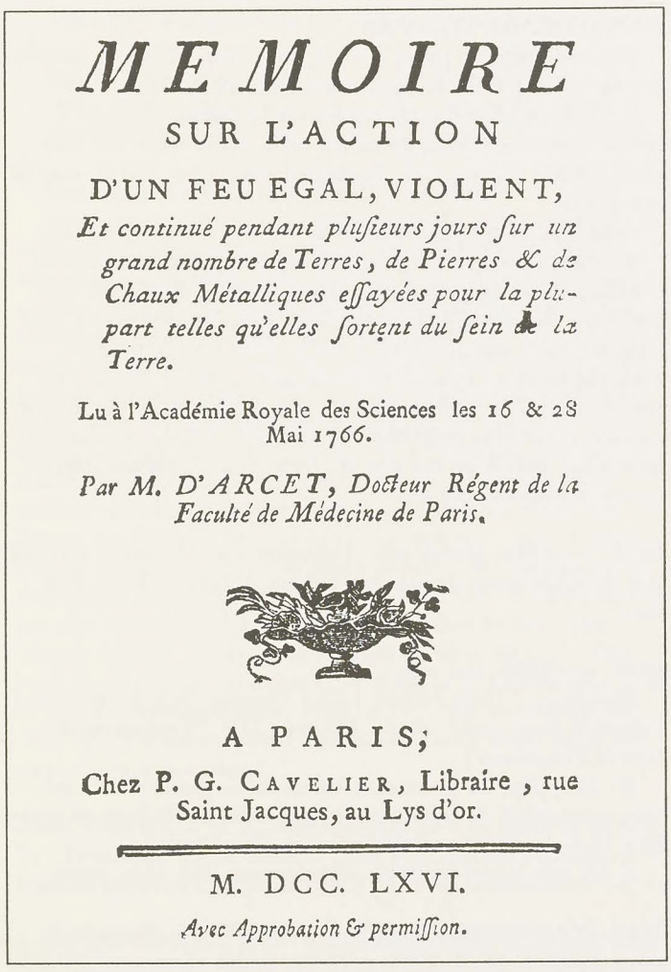
1575. -----1772

Proces-Verbal | Des Experiences | Faites dans le labratoire de M. | Rouelle, sur plusiers Diamans | & Pierres précieuses, par Messieurs | Darcet & Rouelle. | Extrait | Du Journal d'Observations sur la Phy- | sique, sur l'Histoire Naturelle & sur | les Arts & Métiers, de M.l'Abbe | Rozier. | [rule] | Volume de Janvier 1772. | [rule] | [orn] | [double rule] | M.DCC.LXXII. [1772]

8°: 30, [2 blank]p; A-B^8; bound-in engrav pl. 19 x 12 cm(7 1/2 x 4 3/4 in).

Cont: tp; text; pl; blank f.

Text in two parts: the first on experimental heat-treatment of diamond, ruby, emerald, etc, and results, to p 14, and, the second, the "procés-verbal" or authenticated written account of the diamond experiment of 16 August, 1771, carried out in the



MEMOIRE

SUR L'ACTION

D'UN FEU EGAL, VIOLENT,

Et continué pendant pluſieurs jours ſur un grand nombre de Terres, de Pierres & de Chaux Métalliques eſſayées pour la plupart telles qu'elles ſortent du ſein de la Terre.

Lu à l'Académie Royale des Sciences les 16 & 28 Mai 1766.

Par M. D'ARCET, Docteur Régent de la Faculté de Médecine de Paris.

A PARIS;

Chez P. G. CAVELIER, Libraire, rue Saint Jacques, au Lys d'or.

M. DCC. LXVI.

Avec Approbation & permiſſion.

1573. Titlepage to Darcet's report on fusion experiments on gemstones

presence of Margrave de Bade Dourlach and wife, the dukes of Brancas, Nivernois, De Chaulnes, Caylus, among others, and also Daubenton, Macquer, and Lavoisier. Details are given on four diamonds used, how the experiments were conducted, and the results. The engraved plate shows a rough diamond and its approximate reduction in size from its original dimensions because of combustion. Summary in *J Physique*, see above, 1, p 480-88, and in *Crells neuersten Entdeckungen in der Chemie*, Leipzig, Th 8, p 242-50.

1576. -----1773 Experiences nouvelles, sur la destruction du diamant dans les vaisseaux fermes... Paris: Panckoucke, 1773. 8°, 48 p, fold engrav pl. "First separate edition, from Rozier's *Journal de Physique*," not seen, from Jonathan Hill, NYC, Cat 26, 1985, no 42. DSB 3, p 560-1 & 11, p 564. Partington 3, p 76-8, 104-5. The journal pag is T 1, p 17-34.

DARCET, J, see JOURNAL D'OBSERVATIONS SUR LA PHYSIQUE, etc

D'ARGENCE, R Y L, see d'ARGENCE, R Y L

1577. DARING, THOMAS

Thomas Daring | [rule] | Ausbeuter | der | Natur | Bern Leipzig Wien | Wilhelm Goldmann Verlag [1935]

8°: 228, [4 advert]p; 26 photos on 12 bound-in glossy f. Coarse-woven tan cloth, green lett on cover & spine. 22 x 14 cm(8 5/8 x 5 1/2 in). Cut. Te stained pale green. Col dj, map of world. JSL.

Cont: 1/2tp; tp; publ data; fwd; 48 chs; tab cont; adverts.

Anecdotes on searching for and exploiting natural resources, including minerals, gemstones, plants, animals, fishes, etc. The first 9 chs deal wholly or in part with Brazilian gemstones, also ruby, emerald, and diamond, p 9-52, while Ch 39, p 184-7, treats the precious opal of Australia and Ch 44, p 202-5 is on pearl fishing. The preface, perhaps as a safeguard for the author, contains statements reflecting the animosity felt by the Germans against the British on the eve of World War II; similar remarks appear in places in the text.

1578. -----1936, Dutch edit. Uitbuiters van de natuur; op zoek naar de schattigung der aarded. Uit het d. Leiden, 1936. Not seen.

1579. -----1936, Ital edit

Sfruttatori | Della Natura | Di | Thomas Daring | Editore | Valentino Bompiani | 1936 - Milano - XIV ["Traduzione del Dott.G.Volonterio"]

8°: 331, [l]p; 24 photos on 12 bound-in glossy f. Pale yellow, wrap; black & red lett on cover; black lett & logo on spine. 20 x 11.8 cm (7 7/8 x 4 5/8 in). Cut. Lire 12.-.

A 4th edit issued in 1945, entirely reset, 254, [1]p, wrap.

1580. D'ASCENZO, NICOLA GOODWIN By-paths in gems. *R & M*, 16, 3, 1941, p 78-99, 5 ill(4 of cameos). He also priv publ "Gem Tables," a broadside of 17 x 20 inches, ca 1945, price $1.00.

1581. DASHWOOD, W Pearl-shelling industry in Port Darwin and Northern Territory. Report. *Australia, Parliament, Records of the Proceedings, Session* 1901- 1902, vol 2, 91 p; not seen.

DAS IST IDAR-OBERSTEIN, see IDAR-OBERSTEIN...

1582. DASTRE, A Les perles fines; production naturelle et production artificielle. *Revue des Deux Mondes*, Paris,Feb, no 151, 1899, p 671-90. Not seen: G Ranson; Kunz & Stevenson, *Book of the Pearl*, biblio.

D'AUBENTON, or DAUBENTON, LOUIS-JEAN-MARIE (1716-1800)

B Montard, Fr; asst to Buffon; lect in Coll Medecine, Paris; prof zool Coll de Fr, etc.; anatomicist,biologist, mineralogist, and agronomist. *Biogr Univ* 10, 569-71; Pogg 1, 525(mentions minor writings on gemstones, aventurine, gem coloration, inclusions, etc). DSB Suppl, 111-4.

1583. -----1755 XXI. Herrn Daubentons Abhandlung von dem Alabaster. Aus den Mémoires de l'Acad. de Paris. 1755. *Mineralogische Belustigungen, zum Behuf der Chymie und Naturgeschichte des Mineralreichs*, 5.Th. Leipzig, bey Joh. Friedrich Heineck und Faber... 1768, no 21, v 452-68. JSL. Remarks on the confusion attending use of the term "alabaster" for both the calcite kind and the other, gypsum, but proceeds to describe only the calcite-type, its origin in caverns which he assumes is the only kind to be found and apparently ignorant of spring-deposited calcite-onyx.

DAUBENTON, L J M, see BUFFON, J L L, 1783

1584. DAVENPORT, CYRIL

The English | Regalia | By Cyril Davenport | F.S.A. | [vignette] | London | Kegan Paul, Trench, Trübner | And Company, Limited | 1897 [title in red & black]

2°: [2 blank], xiii, [1 blank], 65, [1], [2 blank]p; 12 col photo tip-in pls, each with thick tissue; 62 text fig; numerous ch orns, inits. Dull red cloth, blind frame both covers; gold lett with crown & crossed scepters on cover; gold lett spine. 33 x 25.7 cm(13 x 10 1/8 in). Uncut. Pale tan paper resembling hand-laid. JSL.

Limited edit slip tip-in to face title: "This edition consists of Five hundred copies. No....." Cont: blank f; 1/2tp; limit edit slip; tp; print data; dedic(in red & black); pref; tab cont; col pls list; text; index; print data; blank f.

A standard work and constantly referred to in later literature on the subject. The plates were made from the actual objects, Davenport having received permission to remove them from their cases for photography. However, the reproductions in the book are only fair to good as compared to the vastly superior work of the present. The many line-drawings of objects in the text were made by the author. So far as I can tell, this is the first large treatise on the English regalia to employ colored photographic reproductions. Famous gems in the crowns are described as well as depicted but the large Cullinan diamond was not as yet fitted into the scepter. There is a short chapter, p 57-9, on the Koh-I-Noor. Uncommon.

1585. -----1900

Cameos | By | Cyril Davenport, F.S.A. | Of The British Museum, | Author Of "Royal English Bookbindings," | Etc. | [logo] | London | Seeley And Co., Limited, Great Russell Street | New York: The Macmillan Company | 1900 ["Portfolio" monograph series, no 41]

8°: viii, 66, [6]p; 8 tip-in col photo pls with tissues(one is front), printed on glossy pale yellow paper; 20 bound-in glossy monochrome pls; 2 text fig. Pale gray wrap, ser title, publ, price, etc, on cover in dk blue; title & author on spine; other publ bks back cover & inside covers. 27 x 18.4 cm(10 5/8 x 7 1/4 in). Uncut. Paper 5s.net; cloth 7s.net. Also in dk maroon cloth, blind rules on cover with title & large jewel in gold: gold rules, lett on spine. V dk gray-blue endp. 26.6 x 18 cm(10 1/2 x 7 1/8 in). Teg. Reissued in dull red cloth, blind-rule frame on cover enclosing same lett & jewel but now also blind; title & author on spine in gold but reading vertically. V pale tan endp. 26.3 x 17.8 cm(10 3/8 x 7 in). Ae cut, none gilt. LC 2-18733; JSL.

Cont: pl; tp; tab cont; ill lists(with erratum); 4 chs; index; advert.

Excellent, factual, and written in an easy conversational style; for all purposes it does confine itself to cameos with virtually nothing said about intaglios. The four chapters treat materials, engraving processes, skilful utilization of layers in design, fake cameos, and other general topics in the first chapter, early cameos and those cut in glass, then Greek, Roman and Medieval

gems, and lastly the cameos of the Renaissance and later periods. The examples include some large works as those carved in shell and even in ostrich egg shell, although most pieces are carved to smaller dimensions from mineral gem materials. Throughout the text is found a liberal sprinkling of comments of gem materials and carving techniques quite aside from similar remarks made in the first chapter. All plates are very good. An authoritative and by no means out-dated work that is very much in demand. Chamberlin, 1895. An abstract of an address by Davenport before the Society of Arts in London, Jan 15, 1901, was printed in the *J Soc of Arts*, Jan 25, 1901,and reproduced in *Ann Rept Smithson Inst*, for 1904, p 713-9, with 4 photo pls; the latter was subsequently issued in facsimile by the Shorey Book Company of Seattle, Washington as their Facsimile Reprint Series No SJU 5, 1967, in the form of a centerstapled pamphlet with printed wrap, [14] leaves (2 blank), and with extremely poor reproductions of the plates.

DAVENPORT, C, see YOUNGHUSBAND, G J

DAVEY, GEORGE T, see ALDRICH, JOHN M

1586. DAVEY, J G Notes on the occurrence and origin of turquoise in the Sinai Peninsula. *Trans Roy Geol Soc Cornwall*, Penzance, 16, pt 1, 1929, p 42-65, pl; 3 fig(maps, cross-sections). This appears to be the only adequate modern study of these legendary deposits: location, routes & travel, topography & geology, structure, origin, economic geology, and details on the deposits and their mineralogy, also interior mine workings, methods of mining, qualities and colors of the turquoise, properties and analyses. Much gem material is greenish-blue and commonly impregnated with oil to enhance the color. Davey considers the deposits uneconomical to mine.

1587. -----1946 Venezuela - the Guayana highlands; diamondiferous alluvials of the State of Bolivar. *Mining Mag*, London, 74, 1, 1946, p 9-26. Not seen.

DAVID, FRANÇOIS ANNE (1741-1824) & MULOT or MULLOT, FRANÇOIS VALENTIN(1749-1804)

F A David b Paris; pupil of Le Bas under whom he learned engraving; in his youth became engraver to Louis XVIII; publ various hist works illustrated with his pls. F V Mulot b Paris; mbr legislative assembly in 1749; author & critic. *Biogr Univ*, 62, p 123-4; 30, p 401-3.

1588. -----1787

Le Museum | De Florence, | Ou | Collection Des Pierres Gravées, | Statues, Médailles Et Peintures, | Qui se trouvent à Florence, principalement dans le Cabinet | du Grand Duc de Toscane, | Dessiné et gravé par F.A.David, avec des Explications | françoises, par F.Mulot. | [rule] | Pierres Antiques. | [rule] | Tome Premier[-Second]. | A Paris, | Chez l'Auteur, F.A.David, rue Pierre- | Sarrazin, n°.l3. | [double rule] | M.DCC.LXXXVII. [1787]

The entire work is in 8 volumes, and only the first two, on engraved gems, are described below; however, there are a few engraved gems also included in Vol 4; all are quartos. USGS Kunz Coll.

Vol 1 [2]f + engrav title leaf + iv, 258, [2 blank]p; pi^2, A-Ff^4, Gg^2, Hh-Ii^4, Kk^2; 106 engrav pls. 25.5 x 19.3 cm(10 x 7 5/8 in). Cut.

Vol 2 [2]f + engrav title f + 176 p; pi^2, A_2-A_4, B-y^4; 106 pls.

Vol 3 [2]f + engrav title f + 148 p; A-S^4, T^2; 72 pls.

Vol 4 [2]f + engrav title leaf + 80 p; pi^2, A-K^4; 14 pls.

Vol 5 [2]f + engrav title + 171, [1 blank]p; A-X^4, Y^2; 90 pls.

Vol 6 [2]f + engrav title + 172 p; A-X^4, Y^2.

Not enough copies have been examined to give exact details of the publishing history, however, three different titlepages have been seen, one without date, another with 1788 for the 2nd volume but with the address of the publisher given as "rue des Cordeliers, au coin de celle de l'Observance," and the third as noted above. All engraved titles are dated 1787. According to Reinach, *Pierres Gravées*, 1895, p 13-4, the present work came about because David and Mulot deplored the great cost of the original catalog by Gori of the Florence Collection and believed that the smaller edition here presented would meet a wider audience and hence benefit everyone. As Reinach states, the "intent was laudable but the re-edition presented two inconveniences which render it completely useless... the numbering of their plates does not correspond to that of Gori.... [and] they do not give dimensions." Further, Reinach called Mulot's text "simply ridiculous," giving an example of same on p 14. This work is not noticed by either C W King or A Furtwängler. P & H Zazoff, *Gemmensammler*, 1983, p 191, "the engravings are from hastily drawn sketches and reduced with many upon one plate, the text is useless."

1589. DAVID, T W E, SUMMERS, H S & AMPT, G A The Tasmanian tektite-Darwin glass. *Proc Roy Soc Victoria*, Melbourne, 39, 1927, p 167-90, 1 pl, 4 fig. Not seen.

1590. DAVIDSON, C F On diamantiferous diatremes. *Econ Geol*, Lancaster, 59, 1964, p 1368-80, 2 fig; refs p 1379-80, 20 + iii. JSL. On formation of diamonds in the kimberlites of Yakutia, Siberia. Discussion, ibid, vol 60, 1965, p 638-9; M G Bardet, p 827-30, and M J O'Hara & E L P Mercy, p 830-1; reply vol 60, 8, 1965, p 1735-9, refs p 1738-39, 20 entries.

DAVIDSON, J LEROY, see WALKER ART CENTER

1591. DAVIDSON, MARTHA Chinese jade; 300 vears of master craftsmanship. *Art News*, New York, 36, 1938, p 118-32; Not seen; Yang 1277.

1592. DAVIES, DEWI AELWYN BRYN Report on the geology, gold and diamond deposits of the Awarapari-Issineru-Putareng area, upper Mazaruni River. With photo suppl. *Geol Survey Brit Guiana Bull* 17, Georgetown, Demerara, 1941. Edgestapled, iv, 30 p, Pls I-II (maps, one fullp, the other col fold geol map, bound-in).Wrap, title on cover. 24.5 x 18.8 cm(9 3/4 x 7 3/8 in). Cut. Price 24 cents. The photo suppl contains [3], [1 blank]p + 17 photos on 9 f, one of which folds out; print wrap, title on cover; same size. USGS GS 44-77; JSL. Another version of this report was issued in mimeographed typescript, [2], 35 f. $1.00, but without ill. Describes the region noted for small but steady production of alluvial gold and diamonds.

1593. DAVIES, GORDON

Diamond | Gordon Davies | King's College, London | Adam Hilger Ltd, Bristol [1984]

16°: x, [2 blank], 255, [1 blank]p; 2 b&w photos on front pl + 78 ill (photos, line drawings, graphs). Black, cloth-type paper over bds; silver spine title. Black dj, cut diamond photo on cover, crystal on back cover; flap resume, vita. 23.2 x 15.5 cm(9 1/8 x 6 1/8 in). Cut. £ 17.50. ISBN 0-85274-512-5. JSL.

Cont: 1/2tp; front; tp; publ data; tab cont; note; 9 chs; biblio (p 246-7, 14 entries, annot); index; blank p.

A book which differs considerably from others that attempt to cover all aspects of the diamond in one volume. Davies demonstrates the unique properties of diamond, to what causes they are due, and how they manifest themselves in what we see, namely, luster, cleavage, hardness, and so on. Some scientific background is given which may cause difficulty for readers without special technical knowledge, but the author states that these chapters can be ignored without lessening the value of those that concern history, lore, the diamond in nature, its deposits and mining, cutting, trade, and synthesis, the last an excellent discussion explaining why previous attempts failed. A valuable feature is a survey of the astonishingly diverse uses to which industrial diamond is now being put. References after each chapter. Rev *Industrial Diamond Quarterly*(INDIAQUA), 2, 38, 1984, p 154; see also extracts from his book in 3, 39, 1984, p 61-3, ill. Rev *J Gemm*, 19, 4, 1984, p 375-6; *JCK Book Club News*, 1986, p 1-2.

DAVILA, *Dom* PEDRO FRANCO(d 1785)

Sp naturalist, b Guyaquil, Ecuador; to Paris ca 1748 where assembled extensive cabinet nat hist & art objects; determining to sell same, he prepared the present work with assistance of J-B-L Romé Delisle (1736- 1770), and, according to Cobres *Deliciae*, also aided by the Abbé Duguat. Cabinet sold in 1767 for 800,000 reals; in 1768 Davila removed to Madrid where became perpetual dir of the cabinet of nat hist. Thomas, *Univ Dict*, 1878.

1594. -----1767

Catalogue | Systématique Et Raisonné | Des Curiosités | De | La Nature Et De L'Art, | Qui Composent Le Cabinet | De M.Davila, | Avec Figures en taille-douce, de plusiers mor- | ceaux qui n'avoient point encore été gravés. | Tome Premier [-Troisieme]. [orn] | A Paris, | Chez Briasson, rue Saint-Jacques, à la Science. | [double rule] | M.DCC.LXVII. | Avec Approbation & Permission. [3 vols 8°]

Vol 1: xxxv, [1], 571, [1]p; a-b^8, c^2, A-Mm^8, Nn^6; 22 engrav pls bound-in ahead of of p 561, one fold. 19.7 x 12.5 cm(7 3/4 x 4 7/8 in). Cut. JSL. Agassiz II, 182.

Cont: tp; distributors of catalog; Davila's pref; pref; tab cont; approb; text; index of objects; errata; pls; pl explan; blank p.

Vol 2: vi, 656 p; a^3, A-Ss^8. Cont: tp distrib list; tab cont; text; index of objects; errata.

Vol 3: vi, 290, [6], 186, [2]p; A-S^8, T^4, a-s^8; 8 engrav pls(4 fold) bound-in ahead of p 273 of 2nd part.

Cont: tp; distrib list; tab cont for first pt(fossils); text ending p 258; index of fossils with errata on last p; explan of pls ending on p 290; 1/2tp for 2nd part(art objects); tab cont; text; index of artists (interrupted by bound-in pls); errata; print note.

This catalog is far more than a mere listing of items, in fact each object is more or less adequately described and sometimes fully, causing some critics of this work to call it "outstanding" and "useful." The first volume is devoted to products of the sea, eg, corals, shells, various animal forms, man-made objects, and even a collection of bezoars and calculi as well as saltwater & freshwater pearls(p 501-8). The second volume lists earths, stones, and minerals, including metals, "inflammables" or fuels, and volcanic products. Of interest to the gemologist in this volume are Davila's collections of marbles, flints, jaspers, agates, other chalcedonic varieties of quartz, opals, jades, and precious stones, all taken up between p 22-279. Elsewhere are listed dendritic agates and other stones displaying figures or striking patterns and lastly, p 602-7, jet and amber. Volume three is in two parts, the first on fossils in which appears the "odontolite" or "bone turquoise," while the second part is on art objects but including jewelry, vases and other objects made wholly or in part from gem materials, and engraved gems. The 7th section of this part lists Davila's books. The detail in this work resulted in it being frequently referenced, particularly by U F B Brückmann, *Abhandl Edelsteinen*, 1773, which see. Very rare.

1595. DAVIS, A PAUL(1895-)

Aaron's Breastplate | A Unique Modern Replica | Made of Precious Stones and Fine Gold | Presented To The Baptist Assembly | At Green Lake. Wisconsin | Feb.12, 1960 | For A Permanent Exhibit | Through the Combined Efforts of |...[6 lines of credits]... | Story Written By | A.Paul Davis [St.Louis, Missouri, 1960]

Centerstapled: 48 p, 20 sketches, 15 photos, 4 photo portraits. White wrap, col photo of breastpl on cover; also on back cover with captions. 28 x 21.5 cm(11 x 8 1/2 in). Cut. $1.50. JSL. With useful remarks on the history of the breastplate, how it was made by a local group, with further remarks on the materials, stones, and gold, and also with lists of birthstones, close-up photos of the stones in their settings, the urim and thummim, symbolism, bibliography, and biographical sketches of the personnel involved in the project, with portraits.

1596. DAVIS, FRANK CECIL(1892-)

Chinese Jade | By | Frank Davis | [star] | Published Privately | By The Author | Tewin Wood, Welwyn, Herts [1935; title in 3-rule frame]

8°: [2 blank], [2], 68 p; front glossy pl tip-in + 19 pls on 10 glossy f bound-in; 10 fig. Vivid lemon-yellow paper over bds; green spine & yell lett; yell dj, with green sketch & lett on front. 18.4 x 12 cm(7 1/4 x 4 3/4 in). Cut. LC 44-38706. JSL.

Cont: blank f; 1/2tp; pl; tp; publ data; tab cont; dedic; pref; dynasties; quot; errata slip paste-in at p 8-9; 6 chs; 3 appends; tab of pls; ackn; pls; blank p.

Summarizes major facts on Chinese jade as evidenced by artifacts dated from Chou dynasty to and including the Ming. Also treats mineralogy, "Tibetan" jade, Moghul jade, and carving techniques. A chapter discusses the problems of dating. Appendices on types of ancient jades according to Laufer, notes on Lo-Yang tombs, and sketches & explanations of symbols carved on jades. The plates depict choice specimens of ancient to antique jades. Excellent; met with favor among jade experts. Comment G M Born, p 109-10; rev *Apollo*, 22, Dec 1935, p 354; *Burlington Mag*, 68, Jan 1936, p 56; *Connoisseur*, 97, May 1936, p 292.

1597. -----1944, 2nd edit

Chinese Jade | By | Frank Davis | [star] | The Commodore Press Ltd. | London | 1944.

Called a "second edition" on p [6] but essentially identical; first blank f now absent; paper cheaper, yellower stock; cover & dj gold yellow; pale blue cloth spine with green lett. P size same. A 3rd impress 1946. JSL.

1598. DAVIS, SIMON

The Decipherment of the | Minoan Linear A and | Pictographic Scripts | By | Simon Davis | M.A. (Rand and Cantab.), D.Litt. (Rand) | Professor and Head of the Department of Classics | University of the Witwatersrand | Johannesburg | [logo] | Witwatersrand University Press | Johannesburg | 1967.

8°: xxxi, [1], 342, [1], [1 blank]p; front photo + 74 ill(line drawings & photos). Black cloth, gilt spine; olive-green dj. 25 x 18.7 cm(9 3/4 x 7 3/8 in). Cut. R 16; £ 8. JSL.

Incidental to the translation of five language scripts and comments thereon, the work is illustrated with numerous engraved gem and cylinder seal impressions with discussions of meanings of the engravings.

1599. DAVY, HUMPHREY(1778-1829) Some experiments on the combustion of the diamond and other carbonaceous substances. *Phil Trans Roy Soc London*, 1814, pt 2, p 557-76; not seen; reprint: *Phil Mag & J*, by A Tilloch, No CC, Dec 1814, p 429-38. JSL. Burned diamond within glass globes to prove it is carbon.

1600. DAWSON, GEORGE MERCER(1849-1901) Note on the occurrence of jade in British Columbia and its employment by the natives. With quotations & extracts from a paper by Prof.A.B.Meyer, on nephrite & analogous minerals from Alaska. *Canadian Record of Science*, 2, 6, Apr 1887, p 364-79, fig; also issued sep. JSL. The source of the nephrite as boulders & pebbles apparently in gravels of the Fraser River; these, and similar materials, including pectolite, are described, with remarks on methods of sectioning by use of an abrasive. Dawson believed that nephrite would be found in situ in B C in highly altered basic rocks. Most space devoted to Meyer's article, from which extracts are taken where they concern nephrite artifacts collected from the natives during various explorations in the sub-arctic region. Meyer pointed out that one explorer obtained rough from native who claimed it came from northwestern Alaska, possibly the now well-known Kobuk River area.

1601. DAWSON, J B Kimberlites and their xenoliths. xii, 252 p; 84 ill; 35 tab. Bound. 16 x 24 cm. Vol 15 of the series "Minerals and Rocks," Berlin: Springer-Verlag, 1986. DM 88.-. Not seen: rev *Der Aufschluss*, 32, 1981,p 452.

1602. DAWSON, JOHN WILLIAM(1820-1899) Note on useful and ornamental stones of Ancient Egypt. *Victoria Inst or Phil Soc of Gt Brit J of the Trans*, 26, 1893, p 265-82. JSL. Based on visits to Egypt; brief descriptions of alabasters, silicified woods of the famous petrified forest near Cairo, various other ornamental and gemstone materials (altogether 21, p 278); additional information in discussions appended to the original paper.

1603. DAWSON, THOMAS C Diamond and gold mining in Minas Geraes. *US Consular Repts*, 60, May-Aug 1899, p 535-53, Washington 1899. Not seen: A D Gonsalves, *Bibliogr Brasil*, 1928, p 53.

1604. DAY, GEORGE Stone cutting and polishing. London(?), date(?); not seen.

1605. -----1912(?), New Edit, London Stone Cutting And Polishing By George Day, F.R.M.S. With Reproductions Of Stones Cut And Polished By The Author. New Edition London George Routledge & Sons, Ltd. Broadway House, 68-74 Carter Lane, E.C. [nd]. From wrap: "No.26 Useful Arts Series. 6d. Net." Edgestapled: 53, [3 blank1p; 10 photos on 6 glossy bound-in f & includ in page 6 text fig. Pale tan print wrap, cover title in blue. 18.3 x 12.1 cm(7 1/4 x 4 3/4 in). Cut.

How and where to collect pebbles and other stones suitable for lapidary treatment, especially in the British Isles, and how to cut & polish them as flats or cabochons (faceted stones are not treated). Simple, easily understood instructions and descriptions of necessary equipment and agents. A brief section describes dyeing of gemstones in various hues. An extremely early amateur lapidary work handbook, especially for Great Britain.

1606. DEANE, NEVILLE Adventures in lapidary work. *The Gemm*, vol 23, no 270, 1954, p 1-5, ill; 271, 32-6, ill; 272, 41-6; 275, 114-8; 276, 128-32; 277, 150-3, ill.

1607. DEAVER, KORRA

Rock Crystal | The Magic Stone | compiled and edited by Korra Deaver, Ph.D. | Samuel Weiser, Inc. | York Beach, Maine [1985]

Cementb: ix, [1 blank], 60, [10]p. Col wrap. 21 x 13.6 cm(8 1/4 x 5 3/8 in). $3.95. LC 85-50463; ISBN 0-87728-577-2.

Cont: 1/2tp; tp; publ data; tab cont; dedic; pref; text; biblio(p 59-60, 24 entries); "My Crystal Journal" or 10 blank p except for the heading.

On exploiting the supposed mystic powers of quartz crystals with a little mineralogical information on quartz, the lore, crystal gazing, use of the pendulum for divination, quartz in healing, etc.

1608. -----1986, Ger transl

Korra Deaver | Die | Geheimnisse Des | Bergkrystalls | Eine Einleitung zum Gebrauch | seiner magischen Kräfte | [logo] | Edition | Schaugrila [1986; transl by Marianne Krampe.]

Cementb: 108, [1], [1 blank], [14], [1 blank], [3]p; text drawings & photos. Col wrap; col photo on cover, resume. 18 x 12 cm(7 1/8 x 4 5/8 in). Cut. ISBN 3-924624-29-1.

Cont: 1/2tp; tp; publ data; dedic; tab cont; fwd; 6 chs; biblio(p 107-9, 23 entries); blank p; diary section; blank p; [3 advert]p.

The "perfect" binding is so poor that leaves spring loose when the book is opened.

1609. DE BEERS CONSOLIDATED MINES

A tribute | to Their Majesties from | De Beers Consolidated Mines Limited | and its Associated Companies [title in blue, surmounted by roy coat-of-arms in col; Kimberley, 1947]

4°(?): [6 blank] + [20] + [6 blank]p; 24 photos. Pale blue cloth, dk blue morocco spine; on cover: "Royal Visit | 1947 | Kimberley | [De Beers logo]" in gold. Cockerell mbled endp. 26.8 x 20.6 cm(10 1/2 x 8 1/8 in). Teg. JSL.

Handsome souvenir, issued for visit of King George VI, the Queen, and the two princesses in April, 1947 to Kimberley, South Africa. Provides a brief history of the diamond mining

industry and De Beers; there are many photographs of diamonds and some of famous persons. Despite the high quality of paper & binding, the photographs largely are poor in quality and some have been crudely retouched.

1610. -----1960

Operations at De Beers Consolidated Mines, Limited. [back wrap: "Published in 1960 By De Beers... And Printed By Northern Cape Printers."]

Centerstapled: 44 p; 3 col photos; 25 b&w photos; 9 fig(1 is a fold map, tip-in). Col wrap. 28.5 x 21.3 cm(11 1/4 x 8 3/8 in). Cut. JSL.

Mining & recovery practises in Wesselton, Dutoitspan, Bultfontein & De Beers mines, Kimberley area; local geology, earlier mining efforts, descriptions of duties of various departments in the organisation; hostel housing of native workmen described.

1611. -----1964 The challenge of diamond research-.Johannesburg, 1964, 20 p, ill; not seen.

1612. -----196-(?) The Kimberley diamond mines. [last p: "Published by De Beers... Kimberley, South Africa."]

Centerstapled: 47, [1]p; 31 ill (photos, graphs, orns, maps, some col). Includes a col map in inside front cover. White wrap. 19 x 12.7 cm (7 1/2 x 5 in). Cut. JSL. Comprehensive history of diamond discovery and mining; methods of mining & ore processing; sorting & evaluation of stones; biblio(p 42, 7 entries); statistics.

1613. -----1966, or later?

The Diamond Mines Of The | De Beers Group | A booklet... [8 lines.. .| Issued by De Beers... Kimberley [nd, post 1965]

Centerstapled: 47, [1]p; 13 col photos; 3 col ill(3 mine sects); 9 vignettes; 5 b&w photos. Wrap, front with blue diamond photo, white title. 27.9 x 21.5 cm(11 x 8 1/2 in). Cut. JSL.

Cont: tp; portr photo H F Oppenheimer; tab cont; col ill; introd; text; publ data. (Tab cont calls for statistics on inside back cover, but copies examined did not have same.)

Describes mines belonging to the group in Southern Africa and Tanganyika(Tanzania) with notes on discovery & development. Mines include the Premier, alluvial mines in South West Africa, and the Williamson in Tanzania. Also treated: occurrences, production, recovery, marketing, industrials, research, social problems of personnel at Kimberley, Cullinan, Oranjemund and Mwadui. Re-issued in ca 1966, with same title, but containing 43, [1]pages and many new or exchanged illustrations; a back pocket contains a folded sheet of statistics for 1965; text references to Williamson mine now absent.

1614. -----1967 ca Finsch Diamond Mine. Title is from wrap, there being no titlepage; published ca 1967. Edgestapled: [12] p, 22 ill (col & b&w photos). Col wrap. 24.2 x 22.9 cm(9 1/2 x 9 in). Cut. History, discovery, exploitation, etc of the Finsch pipe mine in northern Cape Province, Republic of South Africa; many fine photos of views, plant, recovery machinery, etc, and including portrait photo of Allister Finsch, discoverer.

1615. DEBO, PAUL Alte Ringe, in 135 Originalaufnahmen aus dem Museum der Badischen Kunstgewerbeschule Pforzheim auf 16 Tafeln. Pforzheim: Eligiu-Verlag, 1923. Wrap, 54 p, 135 rings on 16 pls. Illustrates & describes rings of many periods and origins in the Pforzheim, Germany School of Applied Art Museum. Said to contain an "important bibliography." Not seen.

1616. DE CROY, RAOUL

A La Recherche | De | Diamants | Dans | L'Amérique Équatoriale | Par | Le Comte Raoul De Croy | [logo] | Limoges | Barbou Frères, Imprimeurs- Libraires | Rue Puy-Vieille-Monnaie | [rule] | M DCCC LXXX [1880]

8°: 263, [1]p, the first 2 p blank; front wood engrav + 8 text cuts. 24.3 x 16.3 cm(9 3/4 x 6 3/8 in). Cut. JSL.

Fictional account of a young Frenchman's adventures in Brazil, presumably to seek diamonds, but with very little mention of them except in Ch 14, p 134-44, Ch 21, 202-10, and Ch 22, 211-19, in which meager information is given on alluvial diamond mining.

DECLERCQ, see CLERCQ, L-C-H-F-X

DEECKE, JOHANNES ERNST WILHELM(1862-1934)

Ger mineralogist, geologist; PhD U Strassburg 1884; prof mineralogy U Greifswald 1905; prof paleont U Freiburg 1906; dir Baden Geol Survey 1907- 23. Pogg 6, p 538.

1617. -----1925 Die natürlichen Grundlagen des mittelalterlichen Breisgauer Steinschleifergewerbes. *Bericht (Über die Verhandlungen) d Naturf Ges zu Freiburg i Breisgau*, 24, 1925, p 377-96; not seen.

1618. -----1933

Die | mitteleuropäischen | Silices | nach Vorkommen, Eigenschaften | und Verwendung in der Prähistorie | Von | W.Deecke | [logo] | Verlag von Gustav Fischer in Jena | 1933

8°: VI, [1], [1 blank], 112 p. Orange, print wrap. 25.8 x 17.2 cm (10 1/8 x 6 3/4 ill). RMk 6. JSL.

Cont: 1/2tp; tp; publ data; introd; tab cont; 4 chs; biblio(p 105-7, 67 entries); identif tab; index.

A remarkable monograph which deals with the numerous forms of silica found in Middle-European regions, their characteristics, properties, compositions, etc, their utilization for implements, weapons, and other purposes by the prehistoric inhabitants. Included materials are minerals, rocks, alteration & weathering products or patinas, the last especially treated to aid archeologists in identifying mineral/rock artifacts. Among the minerals are quartz, opal, wood opal, chalcedony, radiolarite of the Alps, jasper, hornstone, and flint. There is much specific locality information. The identification table lists the silica varieties and various rocks versus obvious features & properties as a handy reference to quick but tentative field identification. Contains substantial original work.

1619. DEICHA, GEORGES(1917-)

G.Deicha | Docteur ès Sciences et de Université de Paris | Chargé de Recherches au Labratoire de Géologie Appliquée | de la Sorbonne, | [rule] | Les Lacunes Des Cristaux | Et | Leurs Inclusions Fluides | Signification | Dans La Genèse Des Gîtes Mineraux | Et Des Roches |... Masson Et Cie Éditeurs |...| [double rule] 1955 [double rule]

8°: 126, [1], [1 blank]p; 21 photos on 12 glossy pls bound-in but not incl in pag; 13 fig. Tan & green plasticized wrap, cover & spine titles. 24.5 x 16.3 cm(9 5/8 x 6 3/8 in). Flush cut. JSL.LC 56-545. 8

Cont: 1/2tp; other bks of publ; tp; publ data; pref & note on refs; introd; 5 chs; conclusion; biblio(p 113-7, 131 entries); index; ill lists; tab cont; publ data; blank p.

Reviews knowledge concerning minute cavities within mineral crystals: types, origins, contents, etc, with aim of demonstrating chemical/physical conditions which must have existed in the environment at the time. A short section, p 68-70, discusses inclusions in rare minerals and in gemstones. Many line drawings and photos of inclusions and cavities. Exceptionally large and through bibliography, including earliest studies of inclusions as by Brewster(1823).

1620. DEINES, WILHELM

Diamanten Och Ädla Stenar Kompendium Författet Av Wihelm Deines Stockholm i November 1964 [from wrap; no publisher]

Cementb: [1], 44, [43]f.; 2 cut-out glossy col pls mounted recto on last 2 f. Dk blue wrap; title on cover only. 29.2 x 20.6 cm(11 1/2 x 8 1/8 in). Cut. Text printed recto only.

Cont: fwd; text; tabs; De Beers prod statistics; gloss; questions; biblio(f 43, 20 entries); index; pls.

Basic gemological facts, designed tp "fill in a gap in Swedish technical literature for the jewelry trade." The diamond given most space, f 1-11, followed by colored stones, pearls, synthetics and imitations up to f 28. Identification principles & practises discussed thereafter.

1621. DE KUN, NICOLAS

The Mineral | Resources | Of Africa | by | Nicolas De Kun | Columbia University in the City of New York, N.Y. | [logo] | Elsevier Publishing Company | Amsterdam London New York | 1965

8°: XXVI, 740, [2 blank]p; 136 fig, 172 tabs. Blue unfin cloth, black labels, gold bands, gold lett on spine; pale tan endp. 28.8 x 19.8 cm (11 3/8 x 7 5/8 in). Cut. LC 64-14180. JSL.

Cont: 1/2 tp; tp; publ data; quotes; pref; tab cont; ill list; tabs list; text in 2 parts(20 sections); 2 appends; biblio(p 683-95, 458 entries); index; blank f.

A large and elaborate work treating in the first part the industrial development and mineral economics of the nations; the second part is economic geology. Both parts contain references to diamonds and gemstones. Diamonds are especially treated under economic geology, p 443-61, with notes on genesis, occcurrences, mineralogy, etc, of deposits and characteristic crystals found; they are also mentioned briefly, or more fully, under the countries themselves. Gemstones are briefly treated on p 613-7.

DE LA CHAU, see LACHAU, GERAUD DE, et al

DELAPORTE LOUIS-JOSEPH(1874-1944)

Fr orientalist concentrating on Semitic languages and Assyriology; PhD 1903; diplom École du Louvre 1904 & École des Hautes Études, 1910; prof Inst Cathol Paris; expeditions to Near East. *Dict Biogr Fr*, 10, 792-3.

1622. -----1909 Les cylindres orientaux du Musée de l'Orleanais. *Hilprecht Anniversary Vol*, Leipzig, 1909, p 83-100; not seen.

1623. -----1909 Cylindres orientaux: catalogue du Musée Guimet, Paris. *Annales du Musée, Guimet*, 33, 1909, 10 pls showing 156 reproductions. Brochure. Paris: Leroux. Not seen.

1624. -----1910 Catalogue des cylindres orientaux et des cachets Assyro-babyloniens, Perses et Syro-Cappadociens de la Bibliothèque Nationale. Paris: Leroux. Not seen.

1625. -----1920

Ouvrage Publié Sous Les Auspices De L'Académie Des Inscriptions Et Belles-Lettres | (Fondation De Clercq Et Fondation Dourlans) | [rule] | Musée Du Louvre | [rule] | Catalogue | Des Cylindres | Cachets Et Pierres Gravées | De Style Oriental | Par | Louis Delaporte | Avec Le Concours De M.Fr.Thureau-Dangin | Pour La Partie Épigraphique | [rule] | I.-Fouilles Et Missions [II.-Acquisitions] | [seal] | Librairie Hachette | 79, Boulevard Saint-Germain, Paris | 1920[-23] [2 vols, 4°]

I: VIII (first 2 p blank), 94, [2]p; 60 photo pls on separate f, each with numerous impressions. Folded, uncut & unsewn gatherings + plates, laid loose in portfolio: tan paper over bds, cover title, patterned pale brown cloth corners & spine; pink cotton ribbon ties. 33.3 x 25 cm(13 1/8 x 9 7/8 in). Cont: blank f; 1/2tp; tp; publ data; pref; text; pls.

II: [4]p + p [97], 98-239 + [1]p; pls 61-128. Cont: 1/2tp; tp; publ data; text; index to subjects; tab cont; pls.

Detailed catalog of the seal cylinders and engraved gems in the oriental manner in the Louvre Museum, Paris, acquired by expeditions to sites in the Near East, or by purchase or gift. The first part contains the expedition specimens, segregated according to expedition, while the second part describes specimens acquired by other means. Both parts are supplied with very good quality photographic plates of seal and engraved gem impressions. Numerous intaglios are included but mainly in the second part. Descriptions include subjects, material, dimensions, provenance, etc. Impressive, highly esteemed work. Due to use of loose plates-portfolios, copies commonly are torn along cloth folds and plates are frayed or folded along edges. Scarce.

1626. -----1928 Cachets orientaux de la collection de Luynes. *Aréthuse*, Paris, 5, 1928, p 41-65. Not seen.

1627. DELARIO, A J Jade through the ages. *R & M*, 35, 11/12, 1960, p 578-83; 8-14; fig; 31 ref.

1628. DELATTE, A & DERCHAIN, P

Bibliothèque Nationale | Cabinet Des Médailles Et Antiques | Les Intailles Magiques | Gréco-Égyptiennes | Par | [to left, in column:] A.Delatte | Membre de l'Académie royale | de Belgique | Membre correspondant de l'Institut | Membre correspondant de l'Académie | d'Athènes | et | [to right, in column:] Ph.Derchain | Chercheur qualifé du Fonds | national belge de Recherche | scientifique | [below, in center:] Ouvrage publié avec le concours de la Fondation universitaire de Belgique | Paris | Bibliothèque Nationale | 1964

8°: 380, [1], [3 blank]p; col photo front pl bound-in + 3 others bound-in; ca 900 text photos; 14 small text fig. White paper wrap, red & black title on cover & spine. 24.1 x 16 cm(9 1/2 x 6 1/4 in). Cut. JSL.

Cont: 1/2tp; pl; tp; publ data; dedic; quot; pref; introd; 9 chs; append; mineral identif of gems; index to inscription

words; names index; gloss of Egyptian hieroglyphs; abbrev(biblio, p 369-70, 29 entries); concordances; tab cont; publ data; 3 blank p.

Detailed study of magical engraved gems of Greek and Egyptian origin, based primarily on the collections in the National Library in Paris but including specimens from other sources. The introduction reviews previous literature on the subject and explains the scheme of presentation adopted by the authors with notes on photographic technique. The text, illustrated appropriately with gem photographs, discusses deities favored by magicians and sorcerers, Sun themes, eroticism in gems, medicine, astrology,and other themes, and then provides a last chapter on inscriptions. The appendix describes and depicts a curious engraved pentagonal dodecahedron. There are color plates of engraved gems but the materials used are not directly identified; these are actual specimens but the text photos are of casts. An interesting section on identification of material in certain of the gems, p 245-50, was written by Deicha, Lorenz, and Viallefond, but merely provides a list of gems, by number, with mineral identity for each.

DELATTRE, F P, see BION, J M

DE LAUNAY, LOUIS, see LAUNAY, L DE

1629. DELESTRE

Commerce et Industrie | Des | Pierres [orn] | [orn] Fines | [cut gem] | M.Delestre [Back wrap: "Angers - Imp., 6, Rue Chaperonnière," but no publ, no date; ca 1918]

8°: 212, IV p. Pale gray print wrap, title on cover & spine; supplied flyleaves. 25.5 x 16.5 cm(10 x 6 1/2 in). Uncut, unopened. Fragile yellowing paper. JSL.

Cont: fly; 1/2tp; tp; introd; 5 parts; concl; tab cont; biblio; fly.

Survey of the commercial and industrial problems of the gemstone trade from mining, distribution, and processing to cutting and final disposition. The introduction provides data and tables on birthstones and curious lore. First part: history of gemstones, famous diamonds, other famous gemstones, properties of gemstones, mining, and production. Second part: gem trade and the lapidary industry, diamond trade, jewelry trade, and industrial uses of gemstones, with many statistics. Third part: more on trade, again with numerous statistics and notes and prices of gemstones. Part four is on laws and regulations governing the gem industry in France but with remarks on regulations elsewhere. The last part is on synthetics and imitations and commerce in same. An unusual treatment and valuable for its historical aspects.

DE LIMUR, see LIMUR, *Comte* DE

DELISLE, J-B-L ROMÉ, see ROMÉ DELISLE, J-B-L; also DAVILA, P F

DELIUS, CHRISTOPH TRAUGOTT(1725-1779)

Ger mineralogist, metallurgist; b Saxony in noble family; stud sciences; apptd inspector of mines Hungary 1761; instructor Schemnitz School of Mines; discovered new process for extraction of copper; located a precious opal mine in Hungary(now Czechoslovakia); wrote treatises on origin of mountains and ore veins, also a text on mining; d Florence. *Biogr Univ*, 11, p 8; Pogg 1, p 544.

1630. -----1777 Nachricht von ungarischen Opalen und Weltaugen. *Abhandlungen einer Privatgesellschaft in Böhmen, zur Aufnahme der Mathematik, der vaterländischen Geschichte, und der Naturgeschichte...* von Ignatz Edlen von Born, Prag, 3.Bd 1777, p 227-52. JSL. Important firsthand account on the opals and hydrophanes of the famous "Hungarian", correctly near Dubnik, Czechoslovakian precious opal deposits based on a residence and mining supervisory position by Delius. For modern details on these deposits, see Butkovic, *História slovenského drahého opálu z Dubníka*, 1970. Delius's paper is especially valuable for the reports of his experiments upon the opals. He provides remarkably acute observations on the nature of opal, the host rock, probable origin, the cause of color play which he does not attribute to Newtonian diffraction from minute fissures, the role of water in the constiution of opal, opal dehydration and cracking, and other remarks which taken together offer an astounding fund of knowledge far superior to other remarks on opal extant at the time. He provides specific details on hydration of defective stones and dehydrating others, with or without application of heat. Though buried in a rather obscure journal, this article quickly drew attention and its contents were frequently quoted.

DELLWEG, L W, see SHAININ, V E

DELOCHE, JULES EDMOND MAXIMIN (1817-1900)

Fr civil servant, archeologist; expert numismatist and wrote on moneys and political topics. *Dict Biogr Fr*, 10, 866-7.

1631. -----1896 Le port des anneaux dans l'antiquité Romaine et dans les premiers siècles du Moyen Age, Paris, 1896, wrap, 112 p, 28 x 23 cm. Not seen: from Thomas Heneage, London, Cat 4, 1985, no 66.

1632. -----1900

Étude | Historique Et Archéologique | Sur Les | Anneaux Sigillaires | Et Autres | Des Premiers Siècles Du Moyen Age | Description De 315 Anneaux, Avec Dessins Dans Le Texte | Par | M.M.Deloche | Membre De L'Institut | [vignette, wood engrav] | Paris | Ernest Leroux, Éditeur | 28, Rue Bonaparte, 28 | [rule] | 1900 | Tous droits réservés.

8°: [4], LXV, 397, [3 blank]p. Numerous text fig of rings & gems. Pale tan wrap, title in red & black on cover. 28.3 x 19.2 cm(11 1/8 x 7 1/2 in). Uncut. USGS Kunz Coll.

Cont: 1/2tp; tp; pref; introd; text; append; addit & correct; tab title; geogr tab; collection locations; pers names tab; subj index; tab cont; 3 blank p.

Describes 315 rings, many depicted, dated to the first centuries of the Middle Ages, which bear inscriptions on the metal or stone parts.

1633. -----1929

Maximin Deloche | [rule] | La | Bague En France | A Travers L'Histoire | [logo] | Libraire De Paris | Firmin-Didot Et Cie | 56, rue Jacob, VIe | [rule] | 1929

8°: VIII, 104, [1], [1 blank]p; 419 fig on 16 pls(8 glossy f) bound-in ahead of last text f. Pale tan wrap, title in red & black on front; black spine title. A blank, heavier paper fly leaf supplied at front only & not includ in pag. 26.4 x 20.1 cm(10 3/8 x 7 7/8 in). Uncut. JSL.

Cont: blank f + 1/2tp; other author bks; tp; publ data; pref; text; ill sources; pls list; pls; index; blank p.

A few remarks on the significance of rings and their uses are provided in the preface while the text systematically traces the history of finger rings in France from the earliest recorded periods to modern times. Plates depict specimens in the author's collection as well as many from private and public collections in Europe. There are many rings set with cut gems or engraved gems.

DELONDRE, A, see SOUBEYRAN, J L

DELVAUX, R, see LEGRAND, J,

1634. DEMARTY, J

Les | Pierres D'Auvergne | Employées | Dans La Joaillerie, La Tabletterie | Et Les Arts Décoratifs | Par | J.Demarty | Membre de la Société française de Minéralogie | En Vente | [left, in column:] Librairie Paul Klincksieck | 52, Rue Des Écoles | Paris | [central rule & to right, in column:] Chez L'Auteur | A Chamalières | (Puy-De-Dome) | 1898

8°: 64 p. 23.5 x 14.5 cm(9 3/8 x 5 3/4 in). USGS Kunz Coll.

An ample account of this work is provided by G F Kunz in "Precious Stones" chapter, *20th Ann Rept US Geol Surv*, 1898-99, p 594-6, from which the following is obtained. J Demarty operated amethyst workings in the Auvergne of France, as described earlier by Kunz, *18th Ann Rept USGS*, 1896-1897, p 1206-7, and for the benefit of tourists and scientific visitors prepared this pamphlet. "The numerous precious and semiprecious stones of Auvergne are described as to their mode of occurrence, their degrees of value and abundance, and their principal localities. The rocks are then treated of briefly, and a section is added on the frauds and imitations of gems and the manner of distinguishing them." Gemstones include amethyst, other crystalline quartzes, agates & chalcedonies, opal, hyalite, opalized wood, zircon, aventurine quartz, and aventurine amethyst. There is also "a rather full account... of the manufacture of the artificial aventurine, with the formulas given by various experimenters." Also described are a compact fibrolite, peridot, serpentine, obsidian, iolite, beryls, garnet, tourmaline, topaz, turquoise, corundums, marbles, alabaster and fluorite.

1635. DEMAY, GERMAIN(1819-1886)

Des Pierres Gravées | Employées | Dans Les Sceux Du Moyen Âge | Par | G.Demay, | Archiviste Aux Archives Nationales. | [logo] | Paris. | Imprimerie Nationale. | [rule] | M DCCC LXXVII. [1877]

8°: 68 p; 6 brown-tint glossy photo prints(actual) mounted on heavy paper & bound-in at end of text. Pale gray wrap, cover title. 27.7 x 18.5 cm(11 x 7 1/4 in). Uncut. USGS Kunz Coll, GS 34-590.

Cont: supplied blank f + tp, text; catalog; pls.

On engraved gems used in seals in the Middle Ages; catalog of 367 specimens, each briefly described, dimensions given, and name of collection in which preserved. The photos are of seal impressions and are of good quality and remarkable for being among the earliest engraved gem illustrations to be furnished in actual photographic prints. A reference suggests that this work is a separate from *Inventaire des Sceux de l'Artois et de la Picardie*, Paris, 1877, III-XXIV; not seen.

1636. DEMBSKI, G Katalog der römerzeitlichen Gemmen aus Carnuntum. 1878, 300 p, 36 pls with 1100 ill. Not seen.

DE MÉLY, F, see MÉLY, F DE

DE MENT, JACK ANDREW (1920-)

Amer chem; b Portland, OR; Reed Coll 1938-41; DSc(hon) Western States Coll 1955; formed own research lab; spec in luminescence; author num papers & bks.

1637. -----1945

Fluorochemistry | A Comprehensive Study Embracing the Theory and | Applications of Luminescence and Radiation | in Physicochemical Science | By | Jack De Ment | Research Chemist, Associate Editor, Mineralogist Magazine | Head, Fluorescence Laboratories | Fellow, The Chemical Society of London | [logo] | 1945 | Chemical Publishing Company, Inc. | Brooklyn N.Y.

16°: xvii, 796, [2 blank]p; 30 fig. Bright blue pebbled cloth, gilt. 22.9 x 15.2 cm (9 x 6 in). Cut. JSL. LC 45-10508.

Cont: tp; publ data; pref; tab cont; ill list; 5 parts(16 chs); 5 appends; author index; subj index, blank f.

Treats theory, luminescent substances, organic & inorganic, synthetic phosphors, glasses, UV emitters, gamma and x-ray radiations, IR radiation, and fluorochemistry and fluorobiology. Appendices provide names, symbols, abbreviations, tables, and a very large bibliography, p 751-63 (extensive bibliographies also after each text part). Fluorescent gemstones are included among minerals in Ch 9, p 420-97. Written in popular style.

1638. -----1949

Handbook of | Fluorescent Gems and Minerals | An Exposition and Catalog of the Fluorescent and Phosphorescent | Gems and Minerals, Including the Uses of Ultraviolet | Light in the Earth Sciences | By | Jack De Ment | Research Chemist and Head, Fluorescent Laboratories: | Associate Editor, The Mineralogist. | [rule] | First Edition - 1949 | [rule] | Price $1.50 | Copyright 1949 | By The | Mineralogist Publishing Company | 329 Southeast Thirty-Second Avenue, Portland 15, Oregon

Centerstapled: 68 p; 1 fig, tabs. Pale green orange print wrap. 23 x 15.3 cm(9 x 6 in). Cut. LC 49-4435. JSL.LC 40-4435.

Cont: tp; publ advert; tab cont; pref; 3 parts; 2 appends.

Describes radiation sources and technique of use, the fluorescent gems; the fluorescent minerals, and giving reactions under UV light. A useful guide in its day and gathering together widely scattered information on findings of others as well as results of author's own experiments(p 22-35). Rev R Webster, *The Gemm*, 18, no 218, 1049, p 230-1; also by same author in *J Gemm*, 2, 4, 1949, p 155.

DE MENT, J, see DAKE, H C & DE MENT, J, 1941.

DÉMESTE, JEAN (1745-1783)

Belgian medical dr; principal surgeon, troops of the Bishop-Prince of Liège; mbr various learned societies; intensively stud chem. *Biogr Univ* 11, p 28.

1639. -----1779

Lettres | Du | Docteur Deméste, | Correspondant de la Société Royale | de Médecine, | Au Docteur Bernard, | Premier

Professeur de la Faculté de Médecine de | Douay, de la Société Royale de Londres, &c. | Sur la Chymie, la Docimasie, la Cristallographie, | la Lithologie, la Minéralogie & la Physique | en Général. | [rule] | Novus .... Rerum nascitur ordo. Aeneid, Lib. VII. | [rule] | Tome Premier [-Second]. | [orn] | A Paris, | [to left] Chez [curved bracket] [to right:] | Didot, Imprimeur de Monsieur, | Quai des Augustins. | Ruault, Libraire, rue de la Harpe. | Clousier, Imprimeur & Libraire, | rue Saint-Jacques. | [double rule] | M.DCC.LXXIX. | Avec Approbation, & Privilége du Roi. [1779] [2 vols, 12°]

I: 11, [1], 611, [1 blank]p; a^6, A-Bb^{12}, Cc^6. 16.6 x 10 cm(6 1/2 x 4 in). Cropped. Cont: 1/2tp; tp; publ fwd; tab cont; errata; 28 ltrs; approb; blank p.

II: xij, 665, [5],[2 blank]p; a^6, A-Ee^{12}. Cont: 1/2; tp; tab cont; ltrs 29-48(to p 562); index; errata; priv; blank p. Agassiz II, 213.

Publication of 48 letters from Doctor Démeste to Doctor Jean Bernard (1702-1781), a French surgeon and medical writer as well as Professor of Anatomy at Douay. Subjects treated are chemistry, chemical compounds, properties of air, glass and borax, rocks and minerals, gemstones, bituminous substances, metals, assaying, mercury and amalgams, metallic ores, and volcanoes and their products. Virtually all of the second volume is devoted to metals and ores, however, the first volume contains much of interest to the student of gemstones, eg: Letter 21, p 403-32, under the general heading of "Crystal-Gems," in allusion to both crystal form and transparency, describes diamond, ruby, spinel, zircon, topaz, sapphire, emerald, chrysolite, and various others which were given misleading names then customary, that is, "Brazilian emerald," "Oriental amethyst," and so on. Apparently these descriptions are owing in part to borrowing from such standard texts of the day as Romé Delisle, Sage, and others, which are given as references. Letter 22 is on "Quartzose Products," including rock crystal, and Letter 23, "Other Quartzose Products," describes numerous varieties of crystalline and cryptocrystalline quartz, also opal, and petrifications. All of the gemological information is brief and unremarkable. The work, in parts at least, received severe contemporary criticism as noted in *Biographie Universelle*, ibid, whose reviewer notes the presence of "bizarre ideas, paradoxical opinions, [and] frivolous hypotheses."

DE MICHELE, V & ZEZZA, U, see MICHELE, V etc

1640. DEMIÉVILLE,PAUL Review of TCHANG, HONG-TCHAO, "Che Ya Lapidarium Sinicum, A study of the rocks, minerals, fossils, and metals as known in Chinese literature," *Mem of the Geol Surv of China*, ser B, no 2, Peking 1921, in: *Bull de l'École franç d'Extrême-Orient*, 24, no 1-2, 1924, p 276-301. Not seen. See CHANG HUNG-CHAO, Shih ya, etc, 2nd edit, 1927.

DE MONFRIED, H, see MONFRIED, H DE

DEMONTIOSII, LUDOVICI, *recte* LOUIS DE MONTJOSIEU, see GORLAEUS, 1609

1641. DEMUTH, JEAN ... Der Diamantenmarkt, mit besonderer Berücksichtigung der deutsch-südwestafrikanischen Ausbeute, von Jean Demuth. Karlsruhe i.B., G.Braun, 1913. viii, 132 p. 24 1/2 cm. (Volkswirtschaftliche Abhandlungen der badischen Hochschulen...n.f. Hft.13). "Literaturverzeichnis, p [131]- 132. Not seen; from LC 13-8097.

DE NAVARRO, J M, see NAVARRO, J M DE

1642. DENEKAMP, EMILE EDUARD (1873-)

Die | Amsterdamer Diamantindustrie. | [orn rule] | Inaugural-Dissertation Zur | Erlangung der Doktorwürde | der | hohen philosophischen Fakultät | der | Ruprecht-Karls-Universität zu Heidelberg | vorgelegt von | Emile Eduard Denekamp | aus | Amsterdam. | [orn rule] | Heidelberg. | Universitäts-Buchdruckerei von J.Hörning. | 1895.

8°: 112, [1], [1 blank]p. Self-wrap. 22.6 x 14.5 cm(8 7/8 x 5 3/4 in). Cut. JSL.

Cont: title(on cover); tp; dedic; tab cont; fwd; 5 chs; append; vita.

Doctoral dissertation on the history of the Amsterdam diamond industry, its present state, and social factors affecting the well-being of the workers. Apparently this is the first such social study to be made in this industry in Holland.

1643. DENG SANMU Zhuanke Xue [The study of seal carving]. Beijing, 1982, i, 75 p, many seal imprints in the Chinese text plus ill. Paper, 26 x 19 cm. Not seen: Han-Shang Tang, Ltd, London, List 24, Dec 1984. "Provides valuable information on the methods of carving seals and on seal shapes and imprints."

1644. DENIS DE HERVE, SEBASTIAN JOSEPH Notice sur le gisement et l'exploitation du diamant dans la Province de Minas Geraes au Brésil. *Bull Acad Roy Sci, Lettres, Beaux-Arts de Belgique*, Bruxelles, 7, 1840, p 133-48, col geol map. Not seen: Gonsalves, *Bibliogr Brasil*, 1928, p 53.

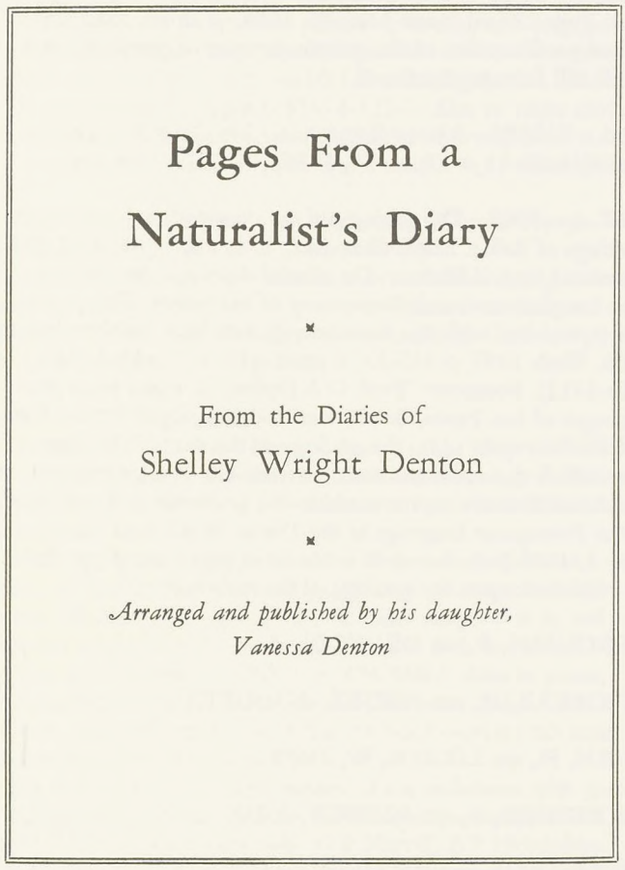
1645. DENISKINA, NELLI DMITRIEVNA; KALININ, DMITRIY VALENTINOVICH; & KAZANTSEVA, LIDIYA KONSTANTINOVNA

Akademiya Nauk SSSR | Sibirskoe Otdelenie | Trudy Instituta Geologii I Geofizikhi | Vypusk 473 | N.D.Deniskina, D.V.Kalinin, | L.K.Kazantseva | Blagorodnye | Opaly | Ikh Sintez | I Genezis V Prirode | Otvetstvennyy redaktor prof. A.A.Godovikov | [logo] | Izdatelstvo "Nauka" | Sibirskoe Otdelenie | Novosibirsk · 1980

Centerstapled: [1](inside front cover!) + 64 + [1](inside back cover) p; Col wrap, title on cover. 21.5 x 14.5 cm(8 1/2 x 5 3/4 in). Cut. 1300 copies. 75k. JSL.

Cont: tab cont(inside front cover); tp; resume & publ data; pref; 3 parts text; conclusion; biblio(p 61-4 + inside back cover, 124 entries, of which 35 are Russian).

This appears to be the first monograph on precious opal produced in the USSR. The first part is the mineralogy of opal, including a discussion of physico-chemical relationships among various opal varieties, water in opal, absorption studies, structure & diffraction effects. The second part describes methods of opal synthesis (outside the USSR) and the problems associated with production of the necessary minute, uniformly-sized spherules, and reports on the results obtained by the authors in their experiments with synthesizing opal. The last part treats genesis of opal in nature and incorporates information on geology and mineralogy of various opal deposits. Most of recent literature on color play & causes in precious opal is listed in the bibliography.



1651. Titlepage of Denton's anecdotes concerning his travels in search of natural history objects, among them gemstones. Privately published

1646. DENMAN, CAROLYN Jade; a comprehensive bibliography. *Amer Oriental Soc J*, 65, Apr 1945, p 117-26. JSL. Introductory remarks on jades in general, list of Chinese dynasties, then the entries arranged according to the following classes: A General, B Chinese, C Asiatic, D European, E American, F exhibition catalogs and reviews, G collections, and H priced catalogs of auction sales. A-G further subdivided into books & articles; class G is not bibliographical - it merely lists known collections in museums and in private hands. Ca 320 entries, mostly articles; not annotated. This list was augmented by F A Johns by ca 64 publications, mostly on early Chinese jades, in *J Amer Oriental Soc*, 72, 1952, p 111-2.

1647. DENNERT, WALTER

Eine Ausstellung | Im Deutschen Goldschmiedehaus Hanau | Edle Steine | Vom 14. August Bis 11. September 1966 [Hanau: Deutsches Goldschmiedes Haus 1966]

Cementb: [19(2 blank)]f + [15] black paper f, each bearing recto a tip-on glossy col pl. Pale blue wrap, title & crystal design on cover. 21.5 x 18.5 cm(8 1/2 x 7 1/4 in). Cut. JSL.

Cont: blank f; 1/2tp; tp; publ data; quote; 2 fwds; text; biblio(10 entries); pls index; blank f with the word "Notizen;" blank f.

Excellent promotional pamphlet issued by the German Goldsmith's Bureau of Hanau in cooperation with the gemological society(Deutschen Ges für Edelsteinkunde) to celebrate their exhibition held in Hanau. The text provides brief remarks on gem lore, the history and work of the gemological society, its endowment fund, German regulations concerning nomenclature in the gem trade, and a summary table of minerals, their varieties, and acceptable names. The splendid colored photo plates are the most attractive feature of this work; they depict rough & cut gemstones and some mineral crystals.

DENNING, REYNOLDS McCONNELL (1916-1967)

Amer geol & mineralogist; BS Mich Technol U, early geol assignments in U S Army & Arkansas Geol Surv; tchr Stanford U 1941-2; to tin mines in Bolivia; Mich Technol U 1945, MS 1949; U Mich Ann Arbor, PhD 1953.

1648. ----- 1953 Directional grinding hardness in diamond. *Amer Min*, 38, 1/2, 1953, p 108-17, 7 fig; ... a further study, *ibid*, 40, 3/4, 1955, p 186- 91, 5 fig; The grinding hardness... in a principal cutting direction, *ibid*, 42, 5/6, 1957, p 362-6, 2 fig.

1649. -----1964 Selected properties of neutron irradiated diamond. *Amer Min*, 49, 1/2, 1964, p 72-105, 18 fig, 4 tab, 42 refs. *Min Abstr*, 16, 7, 1964, p 626. Grinding hardnesses in various crystallographic directions versus amount of fast neutron irradiation, also cleavage, density, x-ray diffraction, piezobirefringence, RI and optical absorption.

1650. DENNISON, L R

By | L.R.Dennison | [wavy rule] | Caroni | Gold | [wavy rule] | With Thirty Illustrations from | Photographs by the Author | [logo] | Hastings House | Publishers New York [1943]

8°: xiii, [1 blank], 274 p; front photo pl on glossy paper tip-in + 29 photos on 7 tip-in glossy f. Tan cloth, vignette on cover; spine title. Map endp in green print. Col dj, resume. 20.5 x 13.8 cm (8 x 5 1/2 in). JSL.

Cont: 1/2tp; pl; tp; publ data; tab cont; ill list; fwd; 19 chs.

A true story, suitably embellished with colorful prose for adventure-loving readers, about the author's gold & diamond hunting expedition to the Caroni River during the exceptionally dry season of 1926 when rivers fell to their lowest levels in 14 years throughout the Orinoco River drainage in southeastern Venezuela. Much useful information is given on the methods used to recover diamonds and on their external features, sizes, and qualities. Reprinted in 1943 in bright yellow cloth, dec & lett in green. 20.5 x 14.1 cm(R x 5 5/8 in). Fe untrimmed. Coarse, blotter-like paper. $2.50. Dj with message on U S War Bonds. JSL.

DENOMBREMENT, FACULTEZ ET ORIGINE DES PIERRES PRECIEUSES, see D, M.L.M.D.S.

1650A. DENT, HERBERT C Piqué. A beautiful minor art. London(?): *The Connoisseur*, 1923, 4°: vi, 25 p, 36 photo pls; cloth. Introd by C Reginald Grundy, editor of the magazine. Not seen; see Caroline Crisford, Newick, East Sussex, England Cat 5, 1989, no 43; see also SOTHEBY AND CO, 1925, for auction sale of Dent's collection, and illustrating many of the pieces by use of some of the original plates.

DENTON, SHELLEY WRIGHT (1859-1938) & DENTON, VANESSA

S W Denton 2nd son of Prof William D & b in Middlefield, OH; family settled in Wellesley, MA ca 1865; Prof & Mrs Denton noted for publication of various works, including the curious *The Soul of Things; Or, Psychometric Researches and Discoveries*, 1863-73, 3 vols(*Allibone, Suppl*, 1, p 479); in 1878, S W D left school to accompany father as collector & preparator in aid of his father's geol lectures, thereafter devoted his life to collecting & selling natural history objects, with his interest in minerals being much increased after a stay in London; in later years he devoted most of his activities to gemstones. Biogr note, *R & M*, 13,7, 1938, p 218.

1651. -----1949

Pages From a | Naturalist's Diary | [orn] | From The Diaries of | Shelley Wright Denton | [orn] | Arranged and published by his daughter, | Vanessa Denton [title in double-rule frame; priv publ, Wellesley, MA, 1949]

8°: [2 blank], [7], [1 blank], 375, [3 blank]p; tip-in glossy front portr pl of S W D. Brown, pebbled cloth, gold title front cover only. 26.8 x 19.8 cm(10 1/2 x 7 3/4 in). Cut. Entire contents, including endp & portr pl, on yellow paper. JSL.

Cont: blank f; p1; tp; publ data; dedic; fwd; tab cont; sketch of life of S W D; text; poem; 3 blank p.

Fascinating accounts, written in an unsophisticated style, taken from trip diaries, of the then famous naturalist-collector, who later in his career became interested in gemstones and established several shops to sell gems and minerals. Denton traveled world-wide: brief references to pearling in Australia, p 73-6; freshwater pearling experiences in Iowa form the theme for several chapters, 126-44, one dealing with experiences in 1898, and another in 1907; digging for precious opal in Nevada's Virgin Valley in 1913, p 146, 69, and in 1917, p 170-86, with considerable detail on deposits and methods or mining; experiences in the West, p 261-98, while searching for agates, chalcedonies, jaspers, and petrified woods; a general account of gemstones appears on p 367-73. An unnoticed work of considerable importance to mineral-gem Americana. According to a letter from Frederick W Lunan of Billerica, MA, of August 12, 1959, "only 200 copies were printed and most of these were given away to friends of the family."

1652. DÉONNA, W Gemmes antiques de la collection Duval au Musée d'Art et d'Histoire de Genève. *Aréthuse*, Paris, Fasc 8, Jul 1925, p 26-34, Pls 3-5; p 95-104, Pls 18-19; also issued separately, 18 p, 5 pls, 25 x 20 cm. Not seen; from Thomas Heneage, London, Cat 4, 1985, no 67.

DERBY, ORVILLE ADELBERT(1851-1916)

Amer-Brazilian geol-mineralogist; Grad Cornell U; to Brazil in 1876, eventually Dir Geol & Mineralogical Sect, Nat Hist Mus in Rio de Janeiro. Pogg 3, p 352-3. Obit, *Min Mag*, 11, 82, 1916, p 364-5; GSA Bull, 27, 1915, 21.

1653. -----1882 Modes of occurrence of the diamond in Brazil. *Amer J Sci*, 24, 1882, p 34-42, 3 fig. JSL. Geology Diamantina region; local methods diamond washing.

1654. -----1898 Brazilian evidence on the genesis of the diamond. *J Geol*, Chicago, 6, 1898, p 121-46, 2 fig. JSL. Compares geology & mineralogy of Brazilian alluvial diamond deposits to kimberlite deposits of Africa and suggests that Brazilian diamonds may have originated within phyllites affected by intrusives although clear evidence completely lacking.

1655. -----1901 On the modes of occurrence of topaz near Ouro Preto, Brazil. *Amer J Sci*, 11, 1901, p 25-34. JSL. One of earliest useful studies of the unique deposits of precious topaz which still furnish gemstones.

1656. -----1905 Lavras diamantinas. *Inst Geogr Hist Bahia, Revista*, Anno 11, c 11, no 30, 1905, p 113-53. Not seen.

1657. -----1905 The geology of the diamond and carbonado washings of Bahia, Brazil. *Econ Geol*, 1, 2, 1905, p 134-42. JSL. Translated by J C Branner. On alluvial diamonds weathered from conglomerate and descriptions of the stones. This paper was reproduced with the same title in *Ann Rept Smithson Inst* for 1906, Wash 1097, p 215-21, 4 photos(Pls 1-2) added (LC 5-15-1312). Footnote: "Prof. O.A.Derby, for many years State geologist of Sao Paulo, Brazil, was lately employed by the State of Bahia to report upon the geology of the part of the State from which the carbonados are derived. The present paper is translated from the report made to the governor and published in the Portuguese language in the Diario da Bahia of June 1 and June 3, 1905 [see above]. It is the most important paper thus far published upon the geology of the carbonados. "

DERCHIAN, P, see DELATTE, A

DERIBERE, M, see ANDRÉ, AUGUSTE

DERN, H, see LIEBER, W, 1970

DE RIDDER, A, see RIDDER, A DE

DE ROZIÈRE, see ROZIÈRE

DESAUTELS, PAUL ERNEST (1920-1991)

Amer chem, mineralogist; writer; MS U Penn 1946; various employments in industry, schools; to Dept Min US Nat Mus 1958; retired as Curator 1984.

1658. -----1965

Gems | in the | Smithsonian | Institution | by Paul E.Desautels | Associate Curator | Division of Mineralogy | [rule] | Washington, D.C. | 1965

"Smithsonian Institution Publication No. 4608."

8°: [6], 74 p; 41 col photos (one is front); 24 fig(part col). Pale blue-gray wrap, Hope diamond on cover; logo back cover. 22.9 x 15.3 cm(9 x 6 in). Cut. $3.00. LC 65-60068. JSL.

Cont: blank p; front; tp; publ data; tab cont; 3 b&w portrs; 7 chs.

Beautifully produced booklet intended both as an introduction to gems and a guide to the National Gem Collection: brief history of the collection (with three portraits of F W Clarke, Isaac Lea, and L T Chamberlain, all of whom contributed importantly to the collection in its earlier days), the study of gems and their important properties, lapidary treatment, gem substitutes, curious lore, descriptions of the principal species & varieties, and a catalog of the collection. All photos and other illustrations are excellent.

1659. -----1972 edit

Gems In The Smithsonian | Paul E.Desautels, Curator, Division of Mineralogy | Smithsonian Institution Press

Washington, D.C. 1972 [both 1/2 title & title in red & black]

8°: 63, [1 blank]p; front col photo + 43 others; 32 fig(part col). Glossy col wrap, large sapphire gem on cover; other press bks back cover. 25.8 x 21.5 cm(10 1/8 x 8 1/2 in). Cut. $3.00. LC 76-39489; ISBN paper 0-87474-121-1. Also in white cloth, title in metallic red on cover; col dj. Bright red endp. 25.7 x 21.7 cm(10 1/8 x 8 1/2 in). Cut. $6.95. ISBN 0-87474-117-3. JSL.

Cont: 1/2tp; pl; tp; publ data & credits; ill captions; tab cont; ill of the Hall of Gems; 7 chs; blank p.

Text essentially same but illustrations and their arrangement drastically changed, with some previous illustrations removed and others added. Better quality color. Handsome and useful. Rev *J Gemm*, 13, 5, 1973, p 188.

1660. -----1979, new edit

Treasures In The Smithsonian | [rule] | The Gem Collection | Paul E. Desautels | Curator, Division of Mineralogy | Photography by Dane Penland | Smithsonian Institution Press Washington, D.C. 1979

8°: 77, [1 blank], [1], [1 blank]p; front col photo + 44 others; 17 line & shaded drawings; 9 b&w photos(includes 8 portrs). Dk blue cloth, gilt spine title, blue endp. Blue dj, col photo on cover; flap resume & vita. 25.4 x 17.5 cm(10 x 6 7/8 in). Cut. LC 79-16475; ISBN 0-87474-360-5. Also in paper, ISBN 0-87474-361-3, slightly smaller, col wrap. JSL.

Cont: 1/2tp; front; tp; publ data & front caption; tab cont; 8 chs; blank p; publ data; blank p.

The first chapter is a brief history of the collection with notes on and portraits of past curators or collectors, namely, F W Clarke, I Lea, L T Chamberlain, G P Merrill, E P Henderson, W F Foshag, G Switzer, and the author. Following chapters on general gemology & identification, lapidary work, gem substitutes, principal gemstones & varieties, gems in jewelry, and notes on major gems in the collection. Considerable new material has been added and all of it rewritten; new photographs of excellent quality. Rev *JCK*, 152, 4, 1981, p 234.

1661. -----1971

The | Gem | Kingdom | by Paul E.Desautels | Special Photography By | Lee Boltin | [logo, in red] | A Ridge Press Book | Random House, | New York [title printed over double-page spread col photo of cut gems; 1971]

8°: 252p; 128 col, 11 tinted & 63 b&w ill. Light red-purple unfin cloth, gold logo on cover; gold spine title. Col dj, col photos of gems, resume, vitas. Bright magenta endp. 27.1 x 21.4 cm(10 3/4 x 8 3/8 in). Cut. $17.50. LC 70-158812. JSL.

Cont: 1/2tp; tp; publ data; col pl; tab cont; introd; 10 chs; index.

A handsome, superbly illustrated popular exposition of the world of gems. It is easily understandable, comprehensive, and accurate, and certainly the best popular work on the subject to appear in many decades. The text begins with a chapter on the role of gems in the culture of mankind, followed by a chapter on the properties of gemstones and how these are measured by gemologists. The third chapter discusses treated gems, substitutes, imitations and synthetics. In succeeding chapters, Desautels describes the important gemstones, and, in refreshing detail, the rare or unusual species and varieties which are seldom accorded as much space in comparable books. A chapter is devoted to the mining of gemstones and another to lapidary work. Several more chapters concern the use of gems in personal adornment and in decorative objects or in crown jewels. A final chapter is on jade in its several types and includes discussions of jade from worldwide sources. The illustrations not only depict rough and cut gemstones, but also pictures and figures from older gemological works. Unfortunately, there is no bibliography. Rev *G & G*, 14, 1, 1972, p 30-31; *J Gemm*, 13, 2, 1972, p 74-5(for the London edit, below); commentary on jade ch only, Born, 1982, p 113-14.

1662. -----1971, London: Macdonald And Co., 1971, £4.25. SBN 356 039102.

1663. -----1973, Ger edit

Paul E.Desautels Edel- | Steine | Perlen | Jade | Fotos von Lee Boltin | Ott Verlag Thun | Franckh'sche | Verlagshandlung | Stuttgart [1973; "Aus dem Amerikanischen übersetzt von Claudia Schinkievicz... Fachliche Bearbeitung durch Dr. Helmut Bögel."]

8°: 252 p; same ill; same binding but title in white on cover & spine. Col dj; col photo on cover; resume, vitas. P size same. DM 58; SFr 64. JSL. ISBN Thun: 3-7225-6229-5; Stuttgart: 3-440-04033-X. In plain slipcase.

Cont same; very exact fit in the translation to the original. Rev: *Der Aufschluss*, Jg 25, H 5, 1974, p 296.

1664. -----1973, Fr edit

Paul E.Desautels | L'Universe | Des Pierres | Précieuses | Photographies de | Lee Boltin | Traduction de | Raymond Albeck | Arthaud [Paris, 1973]

8°: 251, [1]p; same ill but col photo used on title now moved up to 1/2tp. Charcoal gray unfin cloth, gold spine title, bright fluorescent orange endp. Col dj, col photo spread over both covers; resume. 27.3 x 21.4 cm (10 3/4 x 8 3/8 in). Cut. LC 70-158812. JSL.

Cont: blank p; col photo (spread over 2 p)1/2tp; publ data; tp; col photo; tab cont; introd; remainder as in first edit.

1665. -----1976 Cementback edit of NY 1971 edit. 27.3 x 21.5 cm(10 3/4 x 8 1/2 in). Cut. $7.95. ISBN 394-73373-8; LC 76-159338. JSL.

1666. -----197-?, reprint

The | Gem | Kingdom |... | Lee Boltin |... | A Ridge Press Book | Grosset & Dunlap | New York [nd] Identical to first edit; changes in publ data; pale purple paper over bds; gilt spine title. Plain white endp. $25.00. Remaindered 1980. JSL.

1667. -----1986

The | Jade | Kingdom | [rule] | Paul E.Desautels | [logo] | Van Nostrand Reinhold Company | [rule] New York [1986]

Cementb: viii, [1], [1 blank], 118 p; 43 col photos on both sides of 8 glossy f between p 86-7; 51 b&w photos; 33 line drawings; 3 tabs. Black glossy paper over bds, green spine title; col photo dj, resume, vita. 27.8 x 21.5 cm(10 7/8 x 8 1/2 in). Cut. LC 86-5535; ISBN 0-442-21797-8. JSL.

Cont: 1/2tp; oubl data; tab cont; pref; 11 chs; biblio(p 110-4, 145 entries); index.

While it covers many areas of information concerning jade, the present work emphasizes petrological/mineralogical differences among the jades and jade-like materials, and provides insights

into how they may be distinguished one from another. Type deposits world-wide are described with discussions of occurrences and uses of jade in China, the New World, New Zealand, South Central Asia, India, Russia, Japan, and Europe. A final chapter treats ancient and modern lapidary methods. The bibliography includes most of the important works on jade, especially those books and articles that parallel the author's interest in the scientific rather than the cultural aspects of jade. This does not imply that all curious, lore, symbolism, etc, has heen neglected but only that these do not receive the almost exclusive attention that is so conmonly given them in other treatises on jade.

DE SCHMID, H S, see SCHMID, H S, de

DESCLOIZEAUX, ALFRED-LOUIS-OLIVIER LEGRAND (1817-1897)

Noted Fr mineralogist, crystallographer; b Beauvais; prof in Mus Nat Hist, Paris; mbr Fr Acad Sci, becoming president 1889; publ more than 100 papers; researches in pseudomorphism, polarization, crystallography, etc. Obits A Lacroix, *Bull Soc Fr Minéralogie*, 20, 1897, p 260-87, pl; H A Miers, *Min Mag*, 12, 1898, p 37-8; Pogg I, 558, III, 354. *Notice sur les travaux...* Paris: Impr Mallet-Bachelier, 1856, 14 p; 1861, 37 p; 1862, 42 p; Paris: Gauthier-Villars, 1869, 60 p.

1668. -----1855 Mémoire sur la cristallisation et la structure interiéure du quartz. *Ann Chimie et de Physique*, Paris, 3e ser, t 45, p 129-316. Not seen.

1669. -----1858

Mémoire | Sur | La Cristallisation | Et La Structure Interiéure | Du Quartz, | Par M.Descloizeaux. | [logo] | Paris. | Imprimerie Impériale. | [rule] | M DCCC LVIII. [1858: "Extrait Du Tome XV Des Mémoires Presentées Par Divers Savants A L'Academie Des Sciences. [XV,pp.404-614] ."

4°: [3], [1 blank], 211, [1] p; 5 fold engrav pls. 26.0 x 21.0 cm (10 1/4 x 8 1/4 in). Cut. JSL. GS 7-1560.

Cont: 1/2tp; extract note; tp; text; errata; pls.

Notes on the numerous crystallographic forms of quartz as shown in the exquisitely drawn naturalistic figures upon the plates. Highly important because of noting the lamellar interior structure of amethyst and possibly is the earliest notice (p 188) of the existence of "green" amethyst, which today is also given the name "viridine" and has been created from amethyst by heat treatment. Pl 5, made by a special "gravure par la lumiere" method of Garnier and Salmon of Chartres, almost photographically depicts cross-section slices of quartz and amethyst to show internal structures; some are shown as in polarized light, and others show bandings in amethyst and green quartz.

1670. -----1876 Mémoire sur l'existence, les propriétes optiques et cristallographiques, et la composition chimique du microcline, nouvelle espèce de feldspath triclinique a base de potasse, suivi de remarques sur l'examen microscopique de l'orthose et des divers feldspaths tricliniques. *Annales de Chimie et Physique*, Paris, 5e ser, t 9, 1976, p 1-65, 11 fig(actual photo cut-outs pasted-in); 1 text fig unnumb. JSL. Establishes microcline as a new species of feldspar; describes & illustrates perthitic structure in amazonite and other microclines, using specimens from famous sources of amazonite as Urals, Pennsylvania, Colorado; other gem species as moonstone and perthite also treated. Remarkable for fine original photographic prints used as illustrations.

1671. DESDEMAINES-HUGON Les mines de diamans du Cap. *Revue Des Deux Mondes*, Paris, 3, 1874, p 569-600. JSL. Surprisingly comprehensive early article on the recently discovered diamond mines in South Africa: alternative routes to the field along the Orange River, geography, climate, native & foreign populations, towns, alluvial and dry diggings, or the "pans" which later proved to be pipe deposits, methods of claiming and mining, economics, qualities, sizes, and values of stones. Four "dry-diggings" were identified, namely, Bultfontein, Dutoitspan, Old De Beers, and De Beers New Rush. The author also notes the special features of the diamonds, their high quality and the fact that garnets occur with them, and lastly, speculations as to origin of the diamonds in the pan deposits.

1672. DESLYS, GABY(1884-1920) ... Magnifiques bijoux, colliers de grosses perles d'orient ... sautoir en brillants... sacs en platine, en or, bagues- bracelets ... [Paris], Georges Petit, 1920. 15 pp. 10 pls. 38 1/2 cm. At head of title: Succession de mademoiselle Gaby Deslys. Date of sale 28 June, 1920. USGS Kunz Coll, GS 34-669. Not seen.

1673. DE SMET, K De grote blauwe diamant. Antwerp-Amsterdam:Standaard-Boekhandel, 1962?; not seen.

1674. -----1963, Engl edit

K. De Smet | The Great Blue | Diamond | The Wittelsbacher | Crown Witness To Three Centuries | Of European History | [logo] | 1963 | Publishing Company | Standaard-Boekhandel | Antwerp - Amsterdam

8°: 55, [1 blank] p; col front glossy pl tip-in; 12 photos(1 col) on 5 tip-in & bound-in glossy f. Wrap, col photo of diamond in a jewel on cover + blue lett, pale gray background; back cover white. 21 x 13.5 cm(8 1/4 x 5 3/8 in). Cut. JSL.

Cont: front; tp; publ data & ackn; prologue; tab cont; pl; introd; text; epilogue; blank p.

Translated from the Dutch by A M DeBruin-Cousin; the prologue by J Konkommer of Antwerp, dated 1962, explains how he, as a member of a syndicate, came to purchase the diamond, and his employment of historian Dr Klaus Schneider of Germany to trace its history. The very early history remains unknown, and, curiously, Schneider's attempts to pierce the veil of secrecy surrounding the stone were met with deliberate resistance with the result that the period 1931-51 remains a blank. The diamond is commonly known as the Wittelsbach Diamond(fine blue, 35.56 ct; see Copeland, L L, et al, Diamonds, 1974, p 137).

1675. -----1963, Fr edit

K. De Smet | Le Grand | Diamant Bleu | ou | 'Wittelsbach' | Témoin Principal De Trois Siècles | D'Histoire Européene | ... | 1963 | Editions | Standaard - Boekhandel | Anvers - Amsterdam

"Traduit du neerlandais par Mad.Helene Beer;" identical. JSL.

1676. DESPREZ, FRANK Readings And Gossip About Rings, By Frank Desprez. With Numerous Illustrations. Bristol: Arrowsmith, Quay Street. 1877. [Engrav vignette, a posy ring]

8°: [4 blank], 78, [4] advert p on pink paper, [4 blank]p; 85 text wood engrv of rings. Pale gray wrap; title in black & red, with rules, on cover. 18.4 x 12.4 cm(7 1/4 x 4 7/8 in).

L'HISTOIRE NATURELLE
ECLAIRCIE
DANS UNE DE SES PARTIES PRINCIPALES,
L'ORYCTOLOGIE,
QUI
TRAITE DES TERRES,
DES PIERRES, DES MÉTAUX,
DES MINÉRAUX,
ET
AUTRES FOSSILES,
OUVRAGE DANS LEQUEL ON TROUVE une nouvelle méthode Latine & Françoiſe de les diviſer, & une notice critique des principaux Ouvrages qui ont paru ſur ces matières.

Enrichi de Figures deſſinées d'après Nature.

Par M*** des Sociétés Royales des Sciences de Londres & de Montpellier.



A PARIS,
Chez DE BURE l'Aîné, Quai des Auguſtins, du côté du Pont Saint Michel, à Saint Paul.

M. DCC. LV.
AVEC APPROBATIONS ET PRIVILÉGE DU ROY.

1680. Titlepage to Dezallier D'Argenville's mineralogical treatise notable for its many attractive engraved plates

A small blue paper square is tipped-in after front cover and states "C.D. respectfully offers the enclosed small work, and solicits a perusal of his advertisement at the end."

Popular treatise on rings of all periods with much information on gemstones scattered through the text.

DE TANNER, see TANNER, P De

1677. DETTER, THURE

Ädelstenar och Pärlor | av | Thure Detter [Stockholm: Gummessons Boktryckeri AB, 1951. "Särtryck ur Guldsmedsbranschens Korrespondenskurs 1951]

Centerstapled: [2 blank], 27, [1], [1 blank], [1]p; drawings, tables. Pale brown wrap, brown lett on cover. 19 x 13.5 cm(7 1/2 x 5 3/8 in). Cut. JSL.

Cont: blank f; tp; tab cont; text; print data.

In two parts: I general gemology, II descriptions of gemstones and organic gem materials; includes pearl, cultured pearl, coral, amber, jet. Also treated are synthetics, imitations, assembled stones; closes with a table of birthstones. Principal facts, popularly presented.

DEUTSCHEN DIAMANTEN UND IHRE GEWINNUNG, see DIAMOND FIELDS OF GERMAN SOUTH WEST AFRICA

DE VILLIERS, J & SÖHNGE, P G, see VILLIERS, J De, etc

1678. DEVINE, HERBERT J The Herbert J. Devine Collection of early Chinese jades. [N.p., n.d.] 16 plates, 17 1/2 cm. The plates are bound-up in accordian style and enclosed in a green imitation binding. Not seen; from Born, 1982, p 115.

DE VIS, see EPIPHANIUS, 1934

1678A. DEVLIN, STUART

From The | Diamonds Of Argyle | To The | Champagne Jewels | Of Stuart Devlin ["By Appointment" coat of arms, Queen of England above title & logo below] [Publ by the author, London, 1987]

The black, glossy dustjacket is the titlepage! Title printed in gold with gold photo of a diamond-studded egg; spine title & logo in gold.

8°: 62, [2]p; ca 80 col photos. 1 col diagr, 10 b&w ills. Black paper over bds, gilt spine title; brownish-coppery endp. P size 29.5 x 21 cm 11 5/8 x 8 1/8 in). Cut.

Cont: p [1-2] bear a col photo each; introd; [preface by author]; Argyle [diamond mine in northwestern Australia]; diamonds; Stuart Devlin [ie, the works of]; jewellery; objets de vertu; champagne diamond designs; patronage; publ data.

According to A Janse, of Perth, Western Australia, at least 1,000 copies of this work were issued; he confirms that the dustjacket serves as the titlepage! The book celebrates not only the opening of the diamond mine at Argyle but also the work of jeweler Stuart Devlin who takes advantage of the predominantly yellowish stones produced at Argyle as "champagne" diamonds, and in the book shows many examples of jewelry as well as intriguing Faberge-like eggs of gold that lavishly use the diamonds and are even fitted with mechanisms to display inner "surprises."

DEVONSHIRE, Duke of, see HANCOCK, C F

1679. DEWANI, M D The magic of Indian diamonds. 36 p, ill, publ by The Gem & Jewellery Export Promotion Council, Bombay, India, 1984. Rev *G & G*, 21, 4, 1985, p 252. Not seen.

DEZALLIER D'ARGENVILLE, ANTOINE JOSEPH(1680-1765)

Fr writer of natural hist, gardening, conchology treatises, many noted in *Biogr Univ*, 11, p 274-6; b Paris, stud fine arts under Bernard Picart (1673-1733) and others; 1716 purchased post of secty to the king; amassed important collections of nat hist curiosities. Pogg 1, 566; Agassiz 1, 141; Brunet 2, 522; Cobres 686; Graesse 1, 194.

1680. -----1755

L'Histoire Naturelle | Eclaircie | Dans Une De Ses Parties Principales, | L'Oryctologie, | Qui | Traite Des Terres, | Des Pierres, Des Métaux | Des Minéraux, | Et | Autres Fossiles, | Ouvrage Dans Lequel On Trouve | une nouvelle méthode Latine & Françoise de les diviser, & une | notice critique des

principaux Ouvrages qui ont paru sur ces | matières. | Enrichi de Figures desinées d'après Nature. | Par M***des Sociétés Royales des Sciences de Londres & de | Montpellier. | [orn] | A Paris | Chez De Bure l'Âine, Quai des Augustins, du côté du Pont | Saint Michel, à Saint Paul. | [double rule] | M. DCC. LV. | Avec Approbations et Privilége du Roy. [1755; title in red & black]

4°: [8], xvj, 560, [2]p; a-c^4, A-Aaaa^4, Bbbb; front engrav pl + 26 others; 2 text woodcuts; woodcut head- & tailpcs, ch orns, inits. 28.7 x 22 cm (11. 1/4 x 8 5/8 in). Cut. JSL; Ward & Carozzi 660; Dewalque, 1495.

Cont: front; tp; dedic; approb & priv; instructions to binder; text tp; first pt title; pref; annot biblio; classif scheme; gloss; second pt title; text; third pt title; text; append; index; errata & emend; advert.

One of the author's famous and popular treatises on natural history subjects, this one describing all classes of mineral substances according to a system devised by him in which they are divided into two broad groups: (1) substances occurring naturally in the Earth's crust, and (2) those which do not. The first group is further subdivided into earths, stones, salts, sulfurs(igneous products), metals and ores, while the second encompasses mineralized or fossilized materials originally of animal or vegetable origin and products of the sea as corals, etc which appear to be stoney in nature. All of this is preceded by a first text part in which a large section, p 1-36, is devoted to brief criticisms of earlier works bearing upon the matters treated, eg, Theophrastus(Hill's transl), Pliny, Marbod, Agricola, Encelius, Scheuchzer, Gesner, Dolce, Rueus, Arnobio, Bauhin, De Boodt, and others. This is followed by the classification scheme and a glossary. Gemological matters are principally found in the second part of the text, under "stones," wherein the sub-class of "very hard stones," provides descriptions of most major & minor gemstones used in jewelry and ornament, but also includes architectural stones. Specific stones and varieties are diamond, corundum, topaz, zircon, garnet, beryl, peridot, chrysoberyl, many varieties of crystalline and cryptocrystalline quartz, also opal, turquoise, malachite, and many others, not to mention numerous marbles and other stones that were used in interior and exterior building decoration(p 152-211). This section contains four plates depicting, more or less faithfully, matrix specimens of precious stones, quartz crystals, agates and jaspers, dendritic agates in the collection of the Abbé Joly de Fleury(d 1755), and "cailloux" or flint/jasper specimens displaying remarkable banding, patterns, or imaginary scenes in their interiors. The text also contains two woodcuts that depict the Grand Mogul, Tuscany, Regent, and Sancy diamonds as well as styles of cutting for faceted gems. There is a noteworthy section on the diamond and references to Tavernier as well as general remarks on lapidary work. However, other materials classed with gemstones must be searched out, eg, petrified woods, coral, amber, etc. The final portion of text, p 387-532, lists occurrences in all French provinces. Hardly any of the subject matter is new but though culled from the sources mentioned, it is nevertheless presented in an easily assimilable form aimed mainly at the educated but not necessarily learned citizen of France.

1681. DIAMOND CORPORATION WEST AFRICA LIMITED The story of DICORWAF. The Diamond Corporation West Africa Limited, 25-27 Westmorland Street, Freetown, Sierra Leone [nd, ca 1967]. Edgestapled: 19, [1]p; 11 ill(mainly photos, some col, map). Col wrap; native river scene on cover. 17.5 x 25.3 cm(6 7/8 x 10 in). Cut. JSL. Describes the company's diamond mining activities; fine illustrations.

1682. DIAMOND DISCOVERY IN SOUTH AFRICA

The Diamond Discovery | In | South Africa. | [wavy rule] | A Collection Of Articles And | Original Correspondence, | Extracted From | Various Colonial Journals, | And | Original Remarks | In | Refutation Of The Erroneous Statements Of Messrs | Harry Emanuel And J.R.Gregory. | [wavy rule] | Printed And Published By Geo. R.Weakley, | Colesberg, Cape Of Good Hope. | [rule] | 1869.

8°: [5], [1 blank], 35, [1 blank] p. Print wrap(?). P size ca 20.5 x 13 cm(8 1/8 x 5 1/8 in). Cut. JSL. Cont: advert; tp; pref; text; blank p.

Strong reaction to statements made by Emanuel and Gregory, of London, based on the latter's examination of the site where the first South African diamonds were discovered, to the effect that the diamonds could not have been found where stated and were probably a part of some fraudulent investment scheme. The text consists of extracts quoting Emanuel and Gregory, a lengthy rebuttal of same by the "publisher," presumably Weakley and staff, an extract from the *Colesberg Advertiser*, extracts from the *Geological Magazine*, a letter from a Mr W B Chalmers through whose hands many of the early stones passed, and including a description of 20 stones, a letter from J R O'Reilly, another from Dr John Shaw, and others from persons concerned. See also entries under W G Atherstone and J R Gregory for publications on early Cape Province diamond discoveries. Theal p 89; Southey.

1683. DIAMOND EXPOSITION ANTWERP Exposition le diament [sic]. Salle des Fêtes de la ville (Antwerp). Dec 1936 to Jan. 1937. 87 pp., 21 photo pls., pictorial wrap. 20 x 14 cm. "A fascinating exhibition... by members of the Antwerp diamond trade. The catalogue lists and describes the firms, items lent from private and trade sources, bibliography, etc. The illustrations show designs and objects from the XVI-XVIII centuries." Not seen; from a London bookseller's catalog, 1984.

1684. DIAMOND FIELDS OF GERMAN SOUTH WEST AFRICA

Die deutschen Diamanten | und | ihre Gewinnung | Eine Erinnerungsschrift zur | Landesaustellung Windhuk 1914 | herausgegeben von den Förderern | [logo] | Mit 26 Bildertafeln und 1 Karte im Text | [wavy rule] | Dietrich Reimer (Ernst Vohsen) | Berlin 1914

8°: 95, [1 blank]p; fold doublep glossy photo pl tip-in as front + 32 photos on 25 bound-in & tipped-in glossy f; text map. Pale green wrap, title on cover with silver diamond crystal in orn frame; spine title. 24 x 16 cm (9 3/8 x 6 1/4 in). Cut. GS 34-715. JSL.

Cont: 1/2tp; pl; tp; tab cont & ill list; publ data; introd; text.

A commemorative volume prepared upon the occasion of a colonial fair at Windhuk, German South West Africa, and consisting of a series of contributions from the diamond-mining companies concerning the local diamonds and the industry. Describes history of discovery and development, types of stones, occurrences, production statistics, and other material on the companies themselves. Most information is simply presented and contains much of value while the photographs of scenes and

installations in the fields represent the best single source of views that is to be found anywhere. Very scarce. P J Hugo et al, No 2518, gives the author as P Range and in another place(No 16601 gives the author as F Knacke.

1685. DIAMOND FIELDS OF SOUTH AFRICA The South African Diamond Fields. Extracted from Cape and other newspapers, with an Introduction and Explanatory Preface. By a Colonist. London: Edwin Stanford... 1870. 12°: 46 p. Not seen; from Mendelssohn who states "up to the date of the publication, according to the compiler, "the value of diamonds found did not exceed much more than £50,000, although their existence in Africa has been known for two years." This modest work consists mainly of extracts from letters and newspapers, and includes a most interesting communication sent by Dean Williams of Grahamstown... giving many particulars as to the state of the river diggings of the period. There is no mention of Kimberley or De Beers, but the discovery of Jagersfontein is chronicled..."

1686. DIAMOND FIELDS OF SOUTH AFRICA The Diamond Fields of South Africa. A Story of a four-months' Sojourn in the Diamond Fields of South Africa. By an Officer of the Royal Engineers. Rangoon: Printed at the Regimental Press. 1871. 8°: 85 p. Not seen; from Mendelssohn, "an extremely rare and interesting account of the early days at the Diamond Fields."

1687. DIAMOND FIELDS OF SOUTH AFRICA (Cover, with Title(if any was printed) missing.) Vickers & Co., Printers, Kimberley. Circa 1876. 8°: 4, 25 p. Not seen; from Mendelssohn who states "a highly interesting and historical pamphlet, with much information respecting the earliest days of the Diamond Fields, the regulations of the Digger's Committee, particulars respecting the purchase of the farm on which the Dutoitspan mine was discovered..."

1688. DIAMOND FIELDS OF SOUTH AFRICA The Diamond Fields of South Africa, romance and reality of their discovery and progress, glimpses of bygone Kimberley and reminiscences of old digging days. London, "South Africa," 190-. 32 p. ("South Africa handbooks - no.35) Reprints of articles which appeared in "South Africa." Not seen; from Southey, no 21.

DIAMOND FIELDS OF SOUTH AFRICA With Notes Of Journey, NY 1872, see K

DIAMONDS, MYTH, MAGIC AND REALITY, see LEGRAND, S

1689. DIAMOND INDUSTRY OF SOUTH AFRICA

The | Diamond Industry | Of | South Africa | London: Printed By Edward Stanford | 26 & 27 Cockspur Street, Charing Cross, S.W. | 1893

Edgestapled: 17, [1]p; 7 fold pls (map, plans, cross-sects, part col) at end of text + [1], [1 blank]p. Tan wrap, title on cover, coat-of-arms, in ruled frame. 21.7 x 13.8 cm(8 1/2 x 5 1/2 in). Cut. USGS Kunz Coll, GS 34-447.

Cont: tp; text; statistical tabs; pls; print data; blank p.

Brief statement of current status of the industry, with statistics, and valuable especially for the folding map of Griqualand West diamond fields as well as the geological sections of the Kimberley and De Beers mines and plans that show, in color, underground workings.

1690. DIAMOND MINES A description of the diamond mines, as it was presented by the Earl Marshal of England, to the Royal Society. N° 136, p 907. *The Phil Trans Roy Soc London, Abridged, with notes and biographic illustrations*, by Charles Hutton... George Shaw... Richard Pearson... Vol 2, from 1672 to 1683, London:... 1809. p 405-11. JSL. "The parts of the world containing diamonds, are the island Borneo, and the continent of India on both sides the Ganges: Pegu is reported to have several mines..." Brief but important early article giving a contemporary account of the mines in India, their location, number, depths, enclosing grounds, size and quality of diamonds recovered, administration, and other matters.

1691. DIAMOND RESEARCH LABORATORY, JOHANNESBURG The crystal structure of the diamond and its relation to the selection, division and shaping of industrial stones for the manufacture of diamond tools. Published by The Diamond Research Laboratory, Johannesburg, South Africa. No date, ca 1957. Centerstapled: [6], 41, [1 blank]p; 54 text fig, paper wrap, col photos on both covers. 26.7 x 21.6 cm(10 1/2 x 8 1/2 in). Cut. JSL. Excellent discussion of crystal structure and how hardness is related to specific crystallographic directions, leading to recommendations to lapidaries and machinists on the best ways to section and polish diamond crystals for particular machine-tool applications. The making of metal diamond-gripping points and tools is also described.

1692. DIAMONDS, SOMETHING ABOUT Something about diamonds. *Harper's New Monthly Magazine*, Harper and Brothers, New York, vol 19, no 112, Sept 1859, p 466- 81, 22 wood engrav. JSL. A brief history of the diamond from antiquity to the present, with some curious lore, styles of cutting and the cutter's craft, values, much on the Brazilian diamonds and their mining, with scenes in back-country Brazil and descriptions of major large diamonds with wood engraving outlines of same. The emphasis on Brazilian diamonds is understandable inasmuch as the South African fields were as yet unknown. The author of this article remains unknown.

DIAMONDS IN CALIFORNIA, see PAGES OF HISTORY

1693. DIBROV, V E; MIRONOV, I K; KHOL, F I & ANDRIANOV, V T

Akademiya Nauk SSSR | [double rule] | V.E.Dibrov, I.K.Mironov, | F.I.Khol, V.T.Andrianov | Geologicheskoe Stroenie | I Almazonosnost | Yugo-Zapadnoy Chasti | Sibirskoy Platformy | [rule] | Izdatelstvo Akademiya Nauk SSSR | Moskva - 1960

8°: 96, [3], [1 blank]p; 77 fig; 11 tabs(1 fold(; fold col geol map of Chunsko-Biriunsk region on heavy paper, loose. Pale blue wrap, brown & yellow lett frame. 25.9 x 16.6 cm(10 1/4 x 6 1/2 in). Cut. 7r 10k. Press run 1,300 copies. LC 60-37526. JSL.

Cont: tp; editors; introd; 4 chs; concl; biblio(p 96-7. 56 entries); tab cont; publ data.

The geological structure of the diamondiferous SW portion of the Siberian platform; brief historical review of geological knowledge of the region, diamond in alluvials, origin, rock

formations, etc. Ch 3, p 58-89, on the diamond deposits and is richly illustrated with views and photos of diamond crystals.

DICKINSON, JOAN YOUNGER

USA writer, reporter; MA U Penn in Arts; over 10 yrs writer & assoc editor *Ladies Home J*; United Press International reporter.

1694. -----1965

The Book of | Diamonds | Their History And Romance | From Ancient India To Modern Times | [orn rule] | Joan Younger Dickinson | Introduction by Harry Winston | Crown Publishers, Inc., New York [1965]

16°: ix, [1 blank], [1], [1 blank], [1], [1 blank], 226, [13], [3 blank] p; col photo front pl tip-in; 138 fig. Dk blue unfin cloth, silver lett spine. Blue dj, diam necklace on cover; nat diam back cover; resume; vita. Dull blue endp. 22.8 x 15.3 cm(9 x 6 in). Cut. $5.95. LC 65-15844. JSL.

Cont: 1/2tp; pl; tp; publ data; dedic; introd; tab cont; text tp; 8 chs; biblio (annot on works used in ref, by ch); ackn; ill credits; index; 3 blank p.

Highly interesting, popularly-written work on the diamond stressing its romantic and cultural aspects. There is much on diamond in jewelry and the changing fashions in clothing and wear of diamonds and chapters on history and lore, mining and recovery of diamonds today, cutting, famous diamonds, diamond in personal ornaments, advice on purchasing and a glossary which extends over p 197-26 and includes 447 terms. Where technical matters are concerned, the writing seems less authoritative and occasional inaccuracies occur. Rev *G & G*, 11, 11, 1965, 350-1; *J Gemm*, 10, 2, 1966, 63-4.

Sometime later, another issue of this work appeared with "Bonanza Books. New York" at title foot, with accompanying change in the statement p [4]; otherwise identical. An undated London issue, Frederick Muller Limited, is identical save for dj which is now greenish in hue rather than blue, and with front flap stating this to be the second printing, price 42/- net. JSL. Still another issue, believed to be in 1973, bears "Avenel Books · New York" at foot of title, with suitable change on p [4]; pale greenish-blue cloth-like paper over bds; same dj; otherwise identical. Both Bonanza and Avenel publishers are stated to be divisions of Crown.

1695. -----1968

The Book of | Pearls | Their History and Romance | from Antiquity to Modern Times | Joan Younger Dickinson | Crown Publishers, Inc., New York [1968]

16°: viii, 248 p; col front pl tip-in; 130 ill; 2 diagrams. Pale blue unfin cloth, gold lett spine. Blue endp. Col dj, resume, biogr note. 22.8 x 15.3 cm(9 x 6 in). $6.95. LC 68-20481. JSL.

Cont: 1/2tp; other bk of author; tp; publ data & dedic; tab cont: introd; Hindu hymn; 7 chs; biblio; gloss; index.

The pearl is treated primarily as an object of adornment while the technical aspects of natural history and artificial culture, etc, are relegated to a secondary status. Thus aside from a chapter recounting the attempts made to induce pearl formation in mollusks, and the final successes which made culture practical, and another chapter on the Japanese industry, the scientific aspects are almost ignored. Much of the historical material seems to be based upon matter in Kunz & Stevenson's *Book of the Pearl* as well as several other major works, and including a considerable number of illustrations from the first work named. However, the author has assembled much other interesting and valuable information on the pearl and its place in the cultures of various peoples. Accordingly, many of the illustrations show numerous pearl-ornamented objects, pearls worn by celebrities, etc, all well reproduced. The last chapter provides advice on buying pearls, discusses style considerations, pearl necklaces, suitable lengths for same, and other topics of interest to wearers of pearls. Rev *G & G*, 12, 11, 1968, p 355; *Austral Gemm*, 10, 5, 1969, p 12. Reprinted after 1968, identical, but publisher now Bonanza Books, New York, and date of copyright given as 1968 in Roman numerals. No price on dj and this version sold below half the price originally asked.JSL.

1696. DICKMAN, FRIEDRICH

M.G.H. | Anmärkningar | Mineralogiske och Oeconomiske | Om | Demanters | Rätta Art och Beskaffenhet. | [rule] | Med Philosoph. Facult. samtycke vid | Kongl. Academien i Åbo. | Under | Herr Pehr Adrian | Gadds |... | Utgifne och Förs-varade | Af | Friedrich Dickman | V.D.M. | I Åbo Acad. Ofre Laro-Sal den 3 Maji 1775. | [rule] | Åbo, | Tryckt hos Johan Christopher Frenckell.

Not seen; 18 p; from an art by Eino Aarne in *The Gemmologist*, London, 29, 351, Oct 1960, p 197-8, with photo of title-page.

DICORWAF, see DIAMOND CORPORATION WEST AFRICA

1697. DIEHL, R Neues zum Thema "Synthetischer Smaragd:" Besuch bei Pierre Gilson. *Zs Dt Gemm Ges*, 26, 2, 1977, p 61-75, 17 ill, 3 ref. Visit to Gilson laboratory in France with notes on methods of synthesizing emerald.

1698. -----1979 Djevalith, Fianit, Zirkonia - Was ist das? *Zs Dt Gemm Ges*, 28, 1, 1979, p 3-20, 12 ill, 2 tab, 14 ref. On cubic zirconia, properties, synthesis, crystal structure.

1699. -----1982 Möglichkeiten des Edelsteindiagnose mit Hilfe der Röntgentopographie. *Zs Dt Gemm Ges*, 31, 1/2, 1982, p 3-22, 30 flg, 14 ref. Inner growth structures revealed through use of x-rays,

1700. DIESELDORFF, ARTHUR(1866-)

Beiträge zur Kentniss | der Gesteine und Fossilien der Chathaminseln | sowie einiger Gesteine und neuer Nephrit- | fundorte Neu-Seelands. | [orn rule] | Inaugural-Dissertation | zur | Erlangung der Doktorwurde | der | Hohen Philosophischen Fakultät der Universität Marburg | vorgelegt von | Arthur Dieseldorff | aus Hamburg | [orn rule] | Marburg. | Universitäts-Buchdruckerei (R. Friedrich). | 1901. [wrapper title]

8°: 57, [1]p (includ wrap); 4 tip-in pls. 22.7 x 14.8 cm(8 7/8 x 5 3/4 in). Cut. JSL. Cont: title; thesis note; dedic; pref; text in 4 parts; corrections; vita; pls. GS 5-964.

Petrographic examinations of specimens and fossils collected by H Schauinsland during a visit of the latter to New Zealand's Chatham Island group in 1896-7. The third part of this doctoral dissertation describes nephrite as first reported from D'Urville and Stephens islands at the extreme north of South Island, and in situ serpentinite on D'Urville Island, p 42-54. A sketch map shows localities.

1701. -----1901 Ueber Nephrit, darunter in situ auf Neu-Seeland. *Sitzungsb der königl-bayerischen Akad der Wiss zu München*, 1901, F 47-52. Not seen.

1702. -----1901 Nephrit im Muttergestein und neue Nephritfundorte auf Neu-Seeland. *Centralbl für Min*, Stuttgart, 1901, p 334-44, fig (map); not seen.

DIETERICH, KARL(1869-1920)

Ger pharmacist/chemist; prof pharmaco-chem U Dresden; NDB, 3, 670.

1703. -----1901 First German edit ca 1901. Not seen

1704. -----1901 First Engl edit. Not seen

1705. -----1920 2nd Engl edit

The | Analysis Of Resins | Balsams And Gum Resins | With A Bibliography | By | Dr. Karl Dieterich | Of The Helfenberg Chemical Works | Translated From The German | Second English Edition, Revised And Enlarged | By | H.B.Stocks, F.I.C., F.C.S. | London | Scott, Greenwood & Son | 1920 |...

8°: xvi, 431, [1 advert]p. Dk green cloth, gold title on cover & spine. 21.2 x 13.6 cm(8 1/4 x 5 1/2 in). JSL. Cont: 1/2tp; tp; publ data; pref; tab cont; abbrev in biblio; text; index; advert.

The first part of the text discusses the substances, sources, properties, chemistry, etc, providing useful remarks for gemologists on the nature or resins employed as gem materials, which are described in detail in the second part, namely,amber, anime, copal, dammar, gutta percha, mastic, shellac, and some others, all of which have been used in one way or another in the manufacture of jewelry.

DIETRICH, B De, see FERBER, J J, 1776

1706. DIETRICH, HANS GEORG Zur Entstehung und Erhaltung von Bernstein-Lagerstätten - 1: Allgemeine Aspekte. *Neues Jb Geol Paläont, Abhandl*, Stuttgart, 149, 1975, p 39-72. 2: Bernstein-Lagerstätten im Libanon. Ibid, 152, 1976, P 222-79. Not seen: from SCHLEE, D & GLOCKNER, W, 1978.

DIETRICH, RICHARD VINCENT(1924-)

USA geol/mineralogist; MS & PhD(geol) Yale U; prof geol Virginia Polytech Inst; prof geol Central Michigan U 1970-.

1707. -----1970

Minerals of Virginia | R.V.Dietrich* | Professor of Geology and Associate Dean of Arts | & Sciences, Virginia Polytechnic Institute | Research Division Bulletin 47 | Virginia Polytechnic Institute, | Blacksburg, Va. 24061 | [rule] | *Present Address: School of Arts & Sciences, Central Michigan University, Mount | Pleasant, Michigan [1970]

8°: 325, [3]p; 29 photo pls; 2 maps. Black wrap, col photo on 23 x 15.2 cm(9 x 6 in). Cut. JSL.

"This eighth publication in the Virginia Mineral Localities series... includes the occurrence data... in all previously published bulletins of this series as well as many additional data that have become available since preparation of the last (fourth) supplement..." A popular work, continually in demand, providing a check-list of species, a list of minerals by county, descriptions of noteworthy deposits, eg, the famous Amelia granitic pegmatite deposits, and descriptions of localities according to species, arranged alphabetically; gemstones included are aquamarine, diamond, feldspars, garnet, microlite, quartz, rhodonite, serpentine, staurolite and topaz.

1708. -----1985

The | Tourmaline | Group | R.V.Dietrich | Central Michigan University | [logo] Van Nostrand Reinhold Company | [rule] New York [1985]

Cementb: xiii, [1 blank], [1], [1 blank], 300, [1], [3 blank]p; 15 col photos on 4 glossy f between p 192-3; 71 fig(photos, drawings, diagrs); 51 tab. Pale gray plasticized paper over bds, coppery spine title; pale gray dj, col tourmaline crystal on cover; resume; vita. 2.8 x 15.3 cm(9 x 6 in). Cut. LC S5-3350; ISBN 0-442-21857-5. $34.95. JSL.

Cont: 1/2tp; tp; publ data; dedic; tab cont; pref & ackn; text tp; 11 chs; 3 append; biblio(p 239-88, ca 1,000 entries!, mostly periodical art); index; author vita; 3 blank p.

Compiles and annotates, along with extended remarks and comments,all the important knowledge that has been published on members of the tourmaline group. The emphasis is largely upon scientific aspects but there are short chapters on history, nomenclature, lore, specimen & gem material, and type deposits. Much of the technical matter is useful to the gemologist as the information on inclusions, colorations and causes, optical properties, and other physical properties which may be used in identification. The chapter on gem tourmaline, p 191-201, includes discussions of color, optical phenomena, gem varietal names, lore, sources of material, and other topics. Appendix C, 231-8, is a short list of localities that have yielded notable collector's specimens and/or gem material. Among the many excellent illustrations are crystal drawings, color-zoning diagrams, inclusion photos, and color photos of several hitherto unpublished watercolors of California elbaite crystals; other photos depict cut gems, tourmaline crystals, and jewelry set with tourmalines, including the famous A C Hamlin necklace set with variously colored Maine tourmaline gems. While this work will retain its scientific value for many years, its relatively meager details on tourmaline as a collector's item or as gem material, and the localities from whence they come leaves room in the future for writers who wish to cover these aspects more thoroughly. Rev *Lapis*, Jg 10, 10, 1985, p 43; *R & M*, 61, 2, 1986, p 95.

DIEULAFAIT LOUIS(1830-)

Fr scientist; std med & pharmacy; DSc 1870; prof phys & chem Toulon Lyceum; in 1872 prof geol & mineralogy Faculty of Science, Marseilles. Pogg 3, 362; 4, 329-30.

1709. -----1871

Bibliothèque Des Merveilles | [rule] | Diamants | Et | Pierres Précieuses | Par | Louis Dieulafait | Professeur De Physique, Doctor Ès Sciences | [rule] | Ouvrage Illustré De 130 Vignettes | Par B.Bonnafoux, P. Sellier, A.Marie, Etc. | [rule] | Paris | Librairie Hachette Et Cie | Boulevard Saint-Germain, 79 | [rule] | 1871 | Droits de propriété Et de traduction réservés.

8°: [3], [1 blank], III, [1 blank], 326, [2 blank]p; 130 wood engrav (13 fullp, printed recto, versos blank, but includ in pag). Bright blue, semi-glossy wrap, title cover & spine; other series bks back cover. 19 x 12 cm(7 1/2 x 4 3/4 in). Uncut. 2 Fr 25 c. Also in dk blue embossed cloth, horizontally ribbed, two small gilt panels top & bottom on cover; in center a circular medallion

DIAMONDS

AND

PRECIOUS STONES,

A POPULAR ACCOUNT OF GEMS.

CONTAINING

THEIR HISTORY, THEIR DISTINCTIVE PROPERTIES, AND A DESCRIPTION OF THE MOST FAMOUS GEMS; GEM CUTTING AND ENGRAVING, AND THE ARTIFICIAL PRODUCTION OF REAL AND OF COUNTERFEIT GEMS.

TRANSLATED FROM THE FRENCH OF

LOUIS DIEULAFAIT,
Professor of Physics, Doctor of Sciences.

By FANCHON SANFORD.

ILLUSTRATED BY 126 ENGRAVINGS ON WOOD.

NEW YORK:
CHARLES SCRIBNER'S SONS,
743 & 745 Broadway.

1712. Dieulafait's very popular work on gemstones passed into numerous printings, this being a variant of the New York edition

(logo); title, orns on spine; blind-stamped back cover with orn, gilt, in center; ae stained red; edges polished. Pale green endp. 17.3 x 11 cm(6 7/8 x 4 3/8 in). Cut. Price 1 Fr additional. JSL.

I have seen many more copies in cloth than in paper. A special issue on "papier de Chine," possibly for limited distrib by author, paper pale tan with easily discerned brown fibers in the paper; bound with blue morocco spine, 5 raised bands, marbled endp; 18.2 x 12 cm(7 1/8 x 4 3/4 in); teg; fe partly untrimmed; green marker ribbon; only about half as thick as regular issue.

Cont: ser tp; print data; tp; pref; 10 chs; properties tab; ill list; tab cont; blank f.

In its day, this comprehensive general gemology was the acknowledged authority and rapidly passed into several editions in France and in translations abroad. The initial chapters provide a geological-mineralogical background for the various types of gemstone deposits, and descriptions of physical, optical, and chemical properties, also the history of gems and some lore. The mid-section chapters deal with individual gemstones, beginning with diamond and continuing through the mineral gemstones into organics such as pearl, amber, jet and coral. The last portion provides technical information on diamond synthesis and manufacture of other gemstones, falsifications & imitations, considerable information on the art of the lapidary, and other matters, all of it authoritative, rich in unusual and interesting ana, and generously supplied with fascinating wood engravings of high caliber. Despite its age, there is still to be found much of interest in its pages.

1710. -----1874, 2nd edit

Bibliothèque Des Mervellles | [rule] | Diamants |... | Louis Dieulafait | Professeur De Géologie Et Minéralogie A La Faculté Des Sciences | De Marseille | [rule] | Deuxième Édition | Illustré De 130 Vignettes Sur Bois | Par | B.Bonafoux [sic], P.Sellier, A.Marie, Etc. | [rule] | Paris | ... | 1874 | ...

Physically identical; pref partly rewritten; slight changes in text.

1711. -----1874, Engl edit, London

Diamonds | And | Precious Stones, | A Popular Account Of Gems. | Containing | Their History, Their Distinctive Properties, And A | Description Of The Most Famous Gems; | Gem Cutting And Engraving, And The Artificial Production | Of Real And Of Counterfeit Gems. | From The French Of | Louis Dieulafait, | Professor Of Physics, Doctor Of Sciences. | Illustrated By 126 Engravings On Wood. | [logo] | London: | Blackie & Son, Paternoster Buildings, E.C.; | Glasgow And Edinburgh. | 1874.

8°: xii, 288, [4], [4 advert]p; 126 wood engrv as before but with some omissions & substitutions, there now being only 8 fullp cuts. Purplish-blue cloth, elaborately stamped black orn frame on cover enclosing gilt title & gilt frame; similar orn on spine; black frame only on back cover. Pale yellow semi-glossy endp. 18.1 x 12 cm(7 1/8 x 4 3/4 in). Cut. 4s 6d. JSL.

Cont: tp; publ data; pref; tab cont; ill list; 10 chs(called "parts"); tab of properties; publ data; advert.

Straightforward translation; another issue with bright yellow endp. While not stated, the translator is Fanchon Sanford(see below).

1712. -----1874, New York

Diamonds |... | Of Real And Of Counterfeit Gems. | Translated From The French of | Louis Dieulafait, |... | By Fanchon Sanford. | Illustrated By 126 Engravings On Wood. | New York: | Scribner, Armstrong, And Company. | 1874.

"Illustrated Library Of Wonders," and from cover, "Marvels Of Nature & Art. "

12° (but see note below): [2 blank]f supplied + [1], [1 blank], xii, 292 p + [2 blank]f supplied; same ill but series tp now tipped-in ahead of front pl, and latter tipped-in ahead of tp. Yellowish-green cloth, elaborate black frame, gold corner orns, and a suspended signboard bearing "Marvels Of Nature Science & Art" on front cover. Elaborate black & gilt spine; orn blind frame back cover. V pale yellow semi-glossy endp. 18.6 x 12.4 cm (7 1/4 x 4 7/8 in). Cut. LC 8-30351†. JSL.

Note: although printed from same pls as London edit and retaining original signature numerals, this version is in 12° instead of 8°; as a result the gatherings do not conform to signature numerals.

Cont: 2 blank f; 1/2tp; ser tp; pl; tp; publ data; pref; tab cont; ill list; text; properties tab; 2 blank f.

Aside from changes in front matter, identical to above. Other issues noted differ in use of blank leaves, or in cover decorations, one such issue being in either green or terra cotta cloth, decorated with medallions.

1713. -----1880, Span transl, see SCHWALK, K & DIEULAFAIT, L

1714. -----1886, Sp transl, Barcelona

Luís Dieulafait | [rule] |Piedras Preciosas | Versión Española Por | Cecilio Navarro | [rule] | Illustración de Bonnafoux, Sellier, Marie, etc. | [rule] | Barcelona] Biblioteca De Maravillas | Daniel Cortezo y C.ª - Calle Pallars (Salón de S.Juan) | 1886

8°: [5 blank], 319, [1 blank], [1], [1 blank], [1 advert], [9 blank]p; the first and last blank f are used as pastedown endpapers; 130 wood engrav (13 fullp recto, versos blank, & includ in pag; at least on such fullp ill is tipped-in). Pale red cloth, very elaborate cover frame enclosing a globe, ser title & book title; elaborate lett panels on spine; orn frame on back cover enclosing logo; all lett & dec black. 17.7 x 11.7 cm(7 x 4 5/8 in). Cut. Ae decorated with a pale red & gold design, JSL.

Cont: blank f pastedown; blank f; 1/2tp; publ note; tp; publ data & logo; pref; text: properties tab; blank p; tab cont; blank p; other series bks; blank p; 3 blank f; blank f pastedown.

Translation of first French edition.

1715.-----1887, 3rd Fr edit

Bibliothèque Des Merveilles | [rule] | Diamants |...| [rule] | Troisième Édition | Illustré De 130 Vignettes Sur Bois | Par Bonnafoux [sic], Sellier, Marie, Etc. | [rule] | Paris | Librairie Hachette Et Cie | 79, Boulevard Saint-Germain, 79 | [rule] | 1887 |...

8°: VII, [1 blank], 318, [1], [1 blank] p; same ill as in 2nd edit. Similar cloth, dec, etc, but spine only blind-stamped. Pale gray endp. 17.3 x 11.2 cm(6 3/4 x 4 3/8 in). Cut. Ae stained red. JSL.

Cont: ser tp; publ data; tp; pref; text; properties tab; append; ill list; tab cont; publ data; blank p.

Entirely reset; many minor text changes; new appendix of 3 pages describes some famous diamonds and notes Frémy's synthesis of ruby.

1716. DIGBY, ADRIAN

Adrian Digby | Maya Jades | [Maya symbol] | Published By | The Trustees Of The British Museum | 1964 [London]

4°: 32 p; front glossy col pl tip-in + Pls I-XVI(b&w photos) on 8 glossy f bound-in at end of text; 4 text fig. Stiff white glossy wrap, col Maya jade carving on cover with black lett; black lett spine. 21.6 x 14 cm (8 1/2 x 5 1/2 in). £ .50. JSL.

Cont: 1/2tp; pl; tp; publ data; tab cont; pref; text; biblio(p 31-2, 13 entries); plates.

A handbook to the collection in the British Museum, London, with a brief description of Maya culture, the significance of jades to the Mayas, problems in dating, sources of jades, lapidary treatment, and the several classes of the finished objects in the collection. A sound work with much useful information in a small compass; the text drawings are excellent but the photographs are only fair to good.

1717. -----1972, rev edit Date of 1972 now on titlep; SBN 7141 1532 0; one ref added to biblio. Also in dk blue cloth, gold lett spine, tan dj with jadeite plaque & lett in blue; resume. There are no flyleaves and commonly the first and last leaves are stuck to boards due to careless encasement. 21.6 x 14 cm(8 1/2 x 5 1/2 in). Cut. £ 2.25. JSL.



Fig. 124.—The Lathe at work.



Fig. 125.—Apparatus for Sawing Hard Stones.

1712. Engraver of gems and lapidary at their benches; from Dieulafait

1718. DIGBY, BASSETT

The Mammoth | And Mammoth-Hunting | In North-East Siberia | By | Bassett Digby, F.R.G.S. | With | Photographs And A Map | London | H.F. & G.Witherby | 326 High Holborn, W.C. | 1926

8°: 224 p; glossy photo front pl, tissue, bound-in + 24 photos on one side of 12 bound-in glossy f; 4 text figs; fold map tip-in ahead of index. Dull red cloth, blind-ruled frame front cover; gold lett & mammoth on spine. 22 x 14 cm(8 5/8 x 5 1/2 in). Te cut, others unevenly cut. JSL.

Cont: 1/2tp; logo; pl; tp; ackn; tab cont; ill lists; poem "Mammoths" by P R Chalmers; 14 chs; 2 appends; map; index.

A fascinating and eminently readable account of the mammoth, its natural history, early knowledge of same and the ivory tusks that were eagerly sought for as a source of ornamental raw

material. The author also recounts his trip into the remote reaches of Siberia to buy tusks from the natives. Specific information on the tusks and the nature of the ivory as well as the uses to which it was put by the natives and by others outside appears in Ch 12, p 166-86, captioned "Tusks," There are many photographs of tusks in market places of Siberian villages as well as scenes in the hunting grounds. An attractive work, now scarce.

1719. DIGNAM, DOROTHY

The Histories | Of | Some Famous Diamonds | By | Dorothy Dignam | N.W.Ayer & Son, Inc. | New York 20, New York | 1960

Centerstapled: [2], 24, [1], [1 blank] p (includes wrap); self wrap, cover title; inside covers utilized but back cover blank. 27.8 x 21.7 cm (11 x 8 1/2 in). Cut. JSL.

The compilation states size, style of cut, history, ownership, and other pertinent facts on 29 famous stones; there is a supplementary list of 32 more, for which weights before and after cutting are given and their owners.

DIGNAM, D, see AYER, N W, and LEWIS, M E

1720. DIGUET, L ... Pêche de l'huître perlière dans le Golfe de Californie. *Bull de la Soc Central d'Aquiculture, France*, Paris, 7, 1895, p 1-18; not seen from Ranson; also Kunz & Stevenson, *Book of the Pearl.*

1721. -----1899 ... Exploitation de l'huître perlière dans le Golfe de Californie. Ibid, 9, 1899, p 221-35; ref ibid.

DINDORF, G, see EPIPHANIUS, 1862

1722. DINIZ GONSALVES, or DINIZ GONÇALVES, ALPHEU

Carbite | O Diamante | Estudo Geologico Das Zonas Diamantiferas Da Bahia | Por | Alpheu Diniz Gonsalves | Lente cathedratico de Mineralogia Systematica da Escola Polytechnica da Bahia | Com uma Introducção sobre a "Situação cosmica do mineral" | Por | Almachio Diniz | Bahia | Typographia do "Diario Da Bahia" | 101-Praca Castro Alves-101 | 1911.

Edgesewn: [3], [1 blank], 106, [2] p; 11 text photos. Pale yellow-tan wrap, cover title. Glossy paper. 24.7 x 15.5 cm(9 3/4 x 6 in). Cut. BM (Nat Hist) Min Libr.

Cont: 1/2tp; tp; dedic; introd; text; biblio(p 101-6, 46 entries); photo list; tab cont.

On occurrences of diamonds in the State of Bahia, Brazil: districts, mines, notes on the miners, origin of diamonds, diamond-bearing rivers, etc. The photographs are of a map, diamond specimens, and views. While the reference list is large, many are only marginally connected with the subject and could have been omitted. Gonsalves, 1911, p 65.

1723. -----1949

Alpheu Diniz Gonsalves | Engº civil, bacharel em Ciências Físicas e Matemáticas e doutor em Ciências Físicas e Naturais, | prof. honorário de Geologia e Mineralogia na Escola Politécnica da Bahia e estatistico do | Ministério da Agricultura. | As Pedras Preciosas | na | Economia Nacional | Gráfica Olimpica Editora | Rua Visconde Do Rio Branco, 33 | Rio de Janeiro | 1949

8°: 457, [1], [2 blank]p; tip-in green-monochrome pl + 5 tip-in col pls with printed tissues; 176 fig; 15 tabs & graphs; 8 text maps; 3 fold maps tip-in at end of text. Pale gray-brown doubled wrap, the inner one of stiff white paper bearing short title and cut-out mounted col pl; over this wrap is another of gray paper, lett like inner wrap, but cut-out to expose the inner wrap color pl beneath. Outer wrap flaps fold inward and are cemented in place. 29.2 x 19.2 cm(11 1/8 x 7 1/2 in). Uncut. JSL.

Cont: 1/2 tp; tp; ill note & ackn; pl explan; monochrome pl; dedic; collaborators; author note & quotations; a quot on a single f; index & ill list; pref; introd; text; map(p 392); production tab & graphs; biblio(p 399-427, 462 entries); index to biblio by subject, another by author; publs of author(p 435-8, 70 chrono entries); subj index; locality index; persons index; errata; fold maps; blank f.

A complex and involved work of much value because of being firstly, the only serious general gemological work written by a Brazilian and published in that country, and secondly, because it is the only work that provides more or less reliable information on the gemstones of Brazil since publication of von Calmbach's *Handbuch brasilianischer Edelsteine*, 1938, and the earlier work by von Freyberg, *Die Bodenschätze des Staates Minas Geraes*, 1934. It is in three parts, the first on generalities of gemology, embracing crystallography, mineralogy, classification, nomenclature, etc, the second on descriptions (including synthetics), lapidary treatment, gem values, famous diamonds, and lore, while the last part is a catch-all in which can be found an excellent history of diamond mining in Brazil, gem production statistics, Brazilian law governing prospecting, mining, and commerce, more productions figures, especially on diamond, and the extensive bibliography. The last is remarkable for its size and appears to have been taken mostly from a similar listing in Escard's *Les Pierres Précieuses*, 1914, but containing numerous errors. The text illustrations are rather faintly printed, sometimes smudged, while the interesting color plates are copies of original watercolors made by Walther Wild for G O Wild's *Praktikum der Edelsteinkunde*, 1937 (see rev of the present work by W Fischer, *The Gemm*, 20, 236, 1951, p 71). Fischer notes, with favor, that the names of gemstones are given by the author in several languages, including Greek, and that the statistics are valuable; however, he expresses diasppointment about the meager information actually supplied on Brazilian gemstones and their occurrences. A very scarce work.

DIONYSIUS, see SOCRATES & DIONYSIUS

DIOSCORIDES, PSEUDO, see PSEUDO DIOSCORIDES

1724. DISCOURS Discours touchant les merveilleux effets de la pierre néphretique. Orléans, 1684, 12°; also in 1689. Not seen. Reissued: "Revue et augmentée de plus experiences," 12°, 81 p. Gatterer p 50 ff; according to Fischer, *Nephrit und Jadeit*, 2 edit, 1880, p 115, citing the initials "D.S.R." of the unnamed author, the work itself is "useless."

DISSERTATION GLYPTOGRAPHICA, see VETTORI, F

1725. DISTELBERGER, R Die Sarachi-Werkstatt und Annibale Fontana. *Jb d kunsthist Samml*, 71, 1975, p 95-164. Not seen; Cocks & Truman, bibliogr p 372. The Sarachi workshops

in Italy were noted for production of elaborately carved and jewel-ornamented rock crystal objects.

1726. -----1978 Beobachtungen zur Steinschneidewerkstätten der Miseroni in Mailand und Prag. Ibid, 74, 1978, p 78-152; ref ibid. Observations on the rock crystal facturies of the Miseroni family in Italy and in Prague.

1727. DIXON, C G Report on investigations in the Kurupung and Meanu diamond fields, Mazaruni River, British Guiana. *Rept Geol Survey Dept, Brit Guiana for 1949*, Georgetown, 1950, p 5-25, map; not seen.

DJEVA, see CASPARI, GEORGES

1728. DOBRETSOV, NIKOLAY LEONTYEVICH & TATARINOV, ALEKSANDR VASILYEVICH

N.L.Dobretsov A.V.Tatarinov | Jadeite And Nephrite | In Ophiolites | (on the example of West Sayan) | Editor-in-chief N.V.Sobolev, | Corr. Mem. of the USSR Academy of Sciences | [logo] | Publishing House "Nauka" | Siberian Division | Novosibirsk. 1893

Facing title, recto: "... | Zhadeit | Nefrit | V Ofiolitakh | (na primere Zapadnogo Sayan) |... "

Edgestapled: 122, [4], [2 advert]p; 40 tabs, 38 figs(2 & 3 are maps, on a single fold sheet, loose). Green wrap, white title. 26 x 16.8 cm (10 1/8 x 6 5/8 in). Cut. 2r 10k. 1,000 copies. JSL.

Cont: publ; Engl tp; Russ tp; summary; introd; 6 chs; summary; biblio (p 118-23, 146 entries); tab cont; publ data; adverts.

New data on the geology, mineral associations, conditions of formation, etc, of the jadeite rocks and gem varieties of same, in the West Sayan region of Siberia. Jadeite and nephrite bodies are imbedded in serpentinites; describes how the bodies occur and how they should be prospected in order to obtain gem and ornamental material.

DOBROVOLSKAYA, N V, see KUZMIN, V I, et al

1729. DODD, ALBERT V

The Road To | Rockhounding | [photo] | Humboldt County, Nevada

Cover title only: "Produced by: Humboldt County Chamber Of Commerce... Winnemucca, Nev. 89445... $1.00." No date, ca 1965

Centerstapled: 20 p; 17 photos, 7 sketch maps, plastic overlay template, printed in red, in pocket, the latter formed by folding up the bottom margin of wrap. White paper wrap, orange & black cover title + photo; logo back 21.2 x 14 cm(8 3/8 x 5 1/2 in). Cut. Field trips for quartzes, opal, petrified wood.

1730. DODSON, DAVID & DODSON, SARAH

Rockhounding | In | Arkansas | By David And Sarah Dodson [Little Rock, Arkansas: Publ. by The Dodsons, 1974; title & photo on cover]

Bright yellow wrap, 47, [1 blank] p; 23 photos, 23 sketch maps. 23.1 x 15.3 cm(9 x 6 in). $3.00. Sec print 1975. JSL. Simple, brief guide to 22 localities, including places where quartz family gemstones can be can be found, also to the Crater of Diamonds.

DOELTER, CORNELIO AUGUST SEVERUS, or DOELTER Y CISTERICH, etc (1850-1930)

Eminent Ger mineralogist; b Arroyo, Porto Rico; to Lyceum Karlsruhe 1860; Lycée St Louis, Paris, 1865; Lycée Bonaparte 1868; BS 1869; to U Freiburg i Br 1870; Heidelberg U 1871 (PhD, 1872); prof petrogr & mineralogy U Graz, Austria; replaced Tschermak at U Vienna 1907; ret 1921. Most complete biogr by W Fischer, *Joanneum, Mineralogisches Mitteilungsblatt*, Graz, 1/2, 1971, p 217-53; see also L J Spencer, *Min Mag*, 22, 131, 1930, 390-1; E Dittler, *Centralbl Min*, 1930-A, 476-7; H V Graber, *Mitt geol Ges Wien*, 23, 1931, 154-5. Pogg 3, 367-8; 4, 838.

1731. -----1893

Edelsteinkunde. | [rule] | Bestimmung und Unterscheidung Der Edelsteine | Und Schmucksteine. | Die Künstliche Darstellung Der Edelsteine. | Von | Dr.C.Doelter, | O.Ö.Professor Der Mineralogie An Der K.K.Universität Graz. | [rule] | Mit Zahlreichen Abbildungen Im Text. | [logo] | Leipzig, | Verlag Von Veit & Comp. | 1893.

8°: VIII, 260 p; 45 fig(one col); 2 tabs. Orange, print wrap, adverts inside front cover & back cover; sewn or stapled. 23.2 x 15.2 cm(9 1/8 x 6 in). Uncut. Also bound in cloth(not seen). 5 Mk. USGS GS 33-212; JSL.

Cont: tp; publ data; fwd; tab cont; 51 chs; index; errata.

In three parts, the first (16 chs) is a general treatise on gemology, including crystallography, physical & chemical properties, color changes in gemstones, chemistry, synthesis, imitations, and nomenclature. The second part (Chs 17-41) is descriptive; an appendix, Chs 42-43, describes massive and building stones as marbles, alabaster, gypsum, and the like, The third part (Chs 44-51) describes the methods and procedures in the identification of gemstones, special techniques for examination of stones set in mountings, and other topics, all of it carefully detailed and with major emphasis placed by Doelter on the value of specific gravity in identification. A work that retains value and notable for its early expression of Doelter's particular concerns with causes & alterations of color in gemstones. It is impracticable to list every article which Doelter published on his studies in this field and only those of greatest importance can be included; for a complete list, see W Fischer's biographical study mentioned above.

1732. -----1908 Über die Einwirkung von Radium- und Röntgenstrahlen auf die Farben der Edelsteine. *Sitzungb k Akad Wiss Wien, math-naturw Kl*, 117, Abt I, 1908, p 819-44, 1 fig; also sep issued in print wrap. JSL. Reviews previous work, describes own methods to induce color changes, gives results in detail, followed by further changes after heating irradiated specimens in various gas atmospheres.

1733. -----1908 Über die Einwirkung von Radium- und ultravioletten Strahlen auf die Mineralfarben. Ibid, 117, Abt I, 1908, p 1275-1325, 3 fig; also sep issued in print wrap. JSL. Experimental changes in color in minerals, esp gemstones, from radium and ultraviolet light.

1734. -----1909 [On artificial gemstones.] *Rivista di Scienza*, Bologna, 5, 10, 2, 17 pp; not seen, from *Chem Abstr* 1909, 3, 1865[4].

1735. -----1910

Das Radium und die Farben | Einwirkung des Radiums und | ultravioletter Strahlen auf | organische und unorganische | Stoffe sowie auf Mineralien | Von | Professor Dr.C.Doelter | Vorstand des Mineralogischen Institutes der Universität Wien | Dresden 1910 | Verlag von Theodor Steinkopff

8°: VII, 133, [3 advert]p; 6 fig; tabs. Dk green cloth, blind frame enclosing white lett on cover; white lett spine; rounded corners; green flecked endp. 22.3 x 14.5 cm(8 7/8 x 5 3/4 in). Te stained green. Mk 5; in paper(not seen) Mk 4. JSL. LC 10-2653.

Cont: 1/2tp; tp; publ data; fwd; tab cont; 10 chs; suppl remarks; errata; author index; subj index; advert.

A summary of extant knowledge, much of it generated by Doelter himself, on the effects of radiation upon color in organic and inorganic materials, the latter including gemstones. The radiations are X-rays, cathode rays, and radium rays. Initial chapters explain the nature of the rays, fluorescent effects, methods of employing the emanations, and other technical details useful to a researcher. Later chapters describe effects noted in a large number of substances including glasses, halite, and gemstones(p 68-79). Additional material on gemstones appears in Ch 10. Historically important, this being one of the earliest works devoted to effects of radiations upon gemstones. Rev L J Spencer, *Min Mag*, 15, 72, 1910, p 446-7.

1736. -----1911 Über die elektrische Leitfähigkeit und das Verhalten des Diamanten bei hohen Temperaturen. *Sitzungsber k Akad Wiss Wien, Math-naturwiss Kl*, 120, Abt 1, 1911, p 1-24, 6 fig; also issued separately in yellow, printed wrap, 24.4 x 16 cm(9 5/8 x 6 1/4 in). Uncut. JSL. Investigates electrical conductivity of diamonds and behavior at elevated temperature. Gives electrical constants. Diamond does not necessarily alter to graphite at high temperature when heated in various gases but melting may occur at the extremely high temperature obtainable at the focal point of a sun-mirror. With suitable protection, diamond can be heated to 2090-2500°C without appreciable change. Contains excellent historical review of previous heating experiments and a brief note on color change induced by cathode rays.

1737. -----1911 Die Einwirkung von Kathodenstrahlen auf einige Mineralien und die Natur der Mineralfärbungen. Ibid, 120, Abt I, 1911, p 73-92; also sep in printed wrap. JSL. Effects of cathode rays on minerals and the nature of mineral coloration.

1738. -----1915 Über die Natur der Mineralfarben. Ibid, 124, Abt I, 1915, p 409-23. Not seen.

1739. -----1915

Die | Farben der Mineralien | insbesondere der Edelsteine | Von | Dr.C.Doelter | k.k.Hofrat, o.Professor der Mineralogie und Petrographie, | Vorstand des mineralogischen Instituts der Universität Wien | [rule] | Mit zwei Abbildungen | [logo] | Braunschweig | Druck und Verlag von Friedr. Vieweg & Sohn | 1915

"Sammlung Vieweg, Tagesfragen aus den Gebieten der Naturwissenschaften und der Technik Heft 27..."

8°: IV, 96 p; 2 fig. Thick, mottled yellow wrap, series & bk title on cover; other ser bks back & inside covers; front lett in black & red. 22.5 x 14.7 cm(8 7/8 x 5 7/8 in). Uncut. 3 Mk. JSL.

Cont: tp; publ data; tab cont; introd; 7 sections.

The first substantial monograph to devote itself to the question of the origin and change in color in gemstones, drawn mainly from previous publications of the author but augmented by the work of others as indicated in footnotes. First takes up color phenomena in idiochromatic and allochromatic stones, followed by methods used to determine the nature of the pigmenting matter and describing luminescence effects. The fourth section discusses alteration of color, temperature effects, results of irradiation by cathode, X-ray, anode, and radium emanations, pleochroic haloes, influence of ultraviolet light on minerals that have been heat-treated, and also provides a short list of minerals influenced by heat-treatment and irradiation. The next section briefly discusses coloring agents in gemstones, while the sixth section provides descriptions of gemstones and their specific behavior under the various treatments. The last chapter remarks upon the origin and types of coloring agents in natural minerals and discusses the evidence for changes due to changes in temperature. A highly important work, and with others by Doelter, providing a firm basis for modern investigations of causes of color in crystalline materials. Very scarce.

1740. -----1920 Neue Untersuchungen über die Farbenveränderungen von Mineralien durch Strahlungen. *Sitzungsber Akad Wiss Wien, Math-Naturw Cl*, Abt I, 129, 1920, p 399-430, figs; not seen.

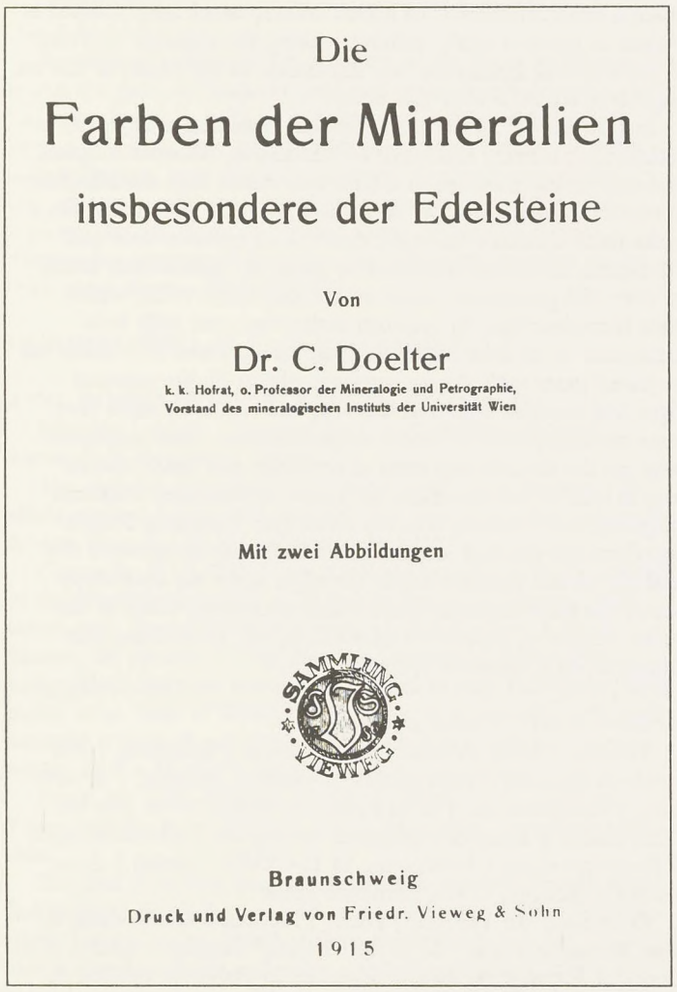
1741. DOELTER, CORNELIO, & OTHERS

Handbuch | Der | Mineralchemie | Unter Mitwirkung von 57 Fachgenossen | herausgegeben | mit Unterstützung der K.Akademie der Wissenschaften ln Wien | von | Hofrat Prof. Dr.C.Doelter |... | Band I[-IV] | ... | Dresden Und Leipzig | Verlag Von Theodor Steinkopff | 1912[-1931].

8°: Bd I, 1912, XIV, 1008 p, 125 fig; Bd II, 1 Hälfte, 1914, XVI, 848 p, 37 fig, 3 pls (13 ill); 2 Teil, 1917, XIV, 1144 p; 18 fig, 1 pl; 3 Teil, 1921, XII, 472 p, 6 fig; Bd III, 1 Teil, 1918, XXII, 965 p, 17 fig; 2 Teil, 1926, XVI, 1244 p, 140 fig; Bd IV, 1 Teil, 1926, XX, 1003 p, 71 fig; 2 Teil 1929, XX, 1494 p, 218 fig; 3 Teil 1931, XII, 1174 p, 109 fig, 1 pl. LC 13-2367.

This monumental work, the *magnum opus* of Doelter's career, of which he wrote approximately one-third, contains an enormous quantity of concise information gleaned from very many sources and confining itself mainly to the scientific facts of minerals and their varieties, among them, almost all gemstones of any importance whatsoever. The data, organisation, and quality of the material included can be appreciated from Doelter's contribution on the diamond as given below. In all articles, references to the literature appear as footnotes. The entire set, rarely to be found these days, remains invaluable to the researcher wishing to know the previous work done and where it is to be found. For further information on Doelter's contributions and his efforts in assembling this work, see W Fischer's study in *Joanneum*, referenced previously, especially p 241-53 which pages list the articles written by Doelter.

1742. DOELTER, CORNELIO Diamant. A section included in "Kohlenstoff(C)" of *Handbuch der Mineralchemie*(see above), Bd I, 1912, p 28-56, 2 fig. Also issued separately as



Die

Farben der Mineralien

insbesondere der Edelsteine

Von

Dr. C. Doelter

k. k. Hofrat, o. Professor der Mineralogie und Petrographie,
Vorstand des mineralogischen Instituts der Universität Wien

Mit zwei Abbildungen

Braunschweig

Druck und Verlag von Friedr. Vieweg & Sohn

1915

1739. One of Doelter's pioneering studies on causes of color in gemstones

"Bogen 1-10," 1911, p 1-160, for all forms of carbon, Mk 6.50, printed wrap. JSL. Chemistry, analyses, physical properties, phosphorescence, triboluminescence, behavior under X-rays and other rays, color, chemical properties, alteration to graphite, syntheses, origin of natural diamond, paragenesis, speculations on same.

1743. DOHRENWEND, DORIS

Doris Dohrenwend | Curatorial Assistant/Far Eastern Department | Chinese Jades | in the Royal Ontario Museum [Toronto, Ontario, 1971]

4°: [2 blank], 135, [1 blank]p; 2 col photos, ca 220 fig(mostly photos). Pale brown cloth, gilt Chinese character on cover; gilt lett spine. White paper dj, with panel showing jade dragon in col & brown lett; flap resume, vita. Pale brown endp. Oblong: 19.1 x 25.6 cm(7 1/2 x 10 1/8 in). Cut. JSL.

Cont: blank f; tp; publ data; tab cont; chronology; pref & ackn; introd; 5 sections; catalog; biblio(p 133, 13 jnls + 94 other); blank p.

A work perhaps less remarkable for its cataloging of about 200 examples in the collection of the museum than for its discerning comments in the text. Here it is discovered that the author wrote this book from a series of notes made while cataloging over 600 pieces in the collection, the latter formed over the period 1919 to 1969, and now numbering more than 1,000 specimens, among which are a suite of Eastern Chou jades of the 5th to 3rd centuries BC from the collection of Bishop White and annotated, in part, in his *Tombs of Old Loyang*, Shanghai, 1934. Many other pieces in the present work, however, have never been published. Dohrenwend provides an excellent section on the problems associated with jades, namely, correct mineralogical identification, dating, and answering the question "Are these Chinese jades?" Another valuable piece of information is the author's study of tool marks on jade pieces as evidence of work accomplished in certain periods and thus adding accuracy to dating. Still another interesting section describes the pioneer works in jade by such as Laufer, Willetts, Pelliot, Salmony, and Hansford, with a special section on Chinese sources of information. The last part of the text treats types or classes of jade objects, whether for ceremonial or for other purposes. The catalog is completely detailed but in too many instances photographs of light-color jades do not contrast well against the white of the paper and detail is difficult to discern. Extensive and useful bibliography. Rev *J Gemm*, 13, 3, 1972, p lll-2; comment in Born, p 115-7.

1744. DOHRMANN, BERNHARD

Grow Rich With Diamonds [long underline] | Investing in the world's | most precious gems | by | Bernhard Dohrmann | [logo] | Published in San Francisco by | Harbor Publishing | Distributed by G.P.Putnam's Sons [1981]

Cementb: [7], [1 blank], 167, [5 blank]p; 10 fig. Black, cloth-like paper over bds, gold spine title. Black dj, title in gold & white with col photo of cut diamonds; back cover & flap resume, vita. 22.9 x 15.1 cm (9 x 5 7/8 in). Cut. ISBN 0-936602-29-5. $12.95. JSL.

Cont: 1/2tp; tp; publ data; dedic; tab cont; pref; 12 chs; 5 blank p.

Typical of the gem investment craze of that time, this book extols the benefits to be derived from systematically investing in cut diamonds as a hedge against inflation or to make a profit in a later resale. Statements and statistics are abundantly provided to prove that cut diamonds appreciated in value faster than the inflation rate, if the stones were held long enough. Discusses sources, markets, markups, resales, "diamond banking," quality certification, grading, frauds, best buys, and considerable general information on the diamond from rough to cut, with sections on famous diamonds and other matters which seem to serve no purpose other than to pad the text.

1745. DOLCE, FRANCESCO MARIA

Descrizione Istorica | Del Museo | Di Cristiano Denh | Dedicata | Alla Regia Società | Degli Antiquari Di Londra | Per L'Abate | Francesco Maria Dolce | Dottore dell'una, e dell'altra Legge, e Pastore Arcade | con il nome di Delco Erimantio. | Tomo Primo[-Terzo]. | [engrav vign] | In Roma MDCCLXXII. | [rule] | Dalle Stampe Di Generoso Salomoni | Con Licenza De' Superiori

Title in red & black; 1772; 3 vols, each with own title, same date, but differing vignettes. 4°.

I: XX, 112 p; a^4, b^6, A-O^4; engrav front portr of Dehn, bound-in; woodcut init, ch orn. 28.3 x 21.2 cm(11 1/8 x 8 3/8 in). Cropped. Cont: pl; tp; dedic; lecture; pref; scatological gems index; notice; imprimaturs; cat.

II: "Tomo Secondo," [4], 115, [1 blank]p; pi^2, A-N^4, O^6. Cont: tp; lecture; cat; blank p.

III: "Tomo Terzo," [3], [1 blank], 112 p.; pi^2, A-N^4, O-P^2. Cont: tp; lecture; catalog; index; tab of subject numbers(2,062); erratas.

The catalog of the impressions of engraved gems in the collection of Christian Dehn, whose name has been variously spelled Denh, as above, Dehne, Dhen, and Deihen(1696-1770), a noted maker of engraved gem impressions. His son-in-law was the author of the text while he himself counted as a friend Baron Stosch. According to Furtwängler, *Die antiken Gemmen*, 3, p 418, Dehn was "skilled in the preparation of gem pastes and impressions of all kinds," and at one time, was a valet to Baron Stosch in Florence, and, in Rome, apparently manufactured sulfur impressions from glass pastes in the Stosch collection. In regard to the present work, Furtwängler calls it an "entirely uncritical and worthless work." In his preface, Dolce lists famous engravers and some gems done by them in the Stosch collection and also remarked upon modern engravers and ends with a discussions of the gem materials used by engravers. See comments by Zazoff, *Gemmensammler*, p 170-1. Brunet 29753. Despite sexually-oriented gems, this work was not noticed by Goodland.

1746. -----1792 Descrizioni di dugento gemme antiche nelle quali contiene un saggio del vario disegno usato dalle piu' colte antiche nazioni. Roma, 1792, 4°, xii, 84 p; an atlas accompanies the text. Not seen; from a bookseller's catalog, 1982.

DOLCE, LODOVICO(1508-1568)

Ital poet, litterateur; b Venice in an old but impoverished family; he studied ancient languages and literature, and produced many translations of classical works, for example, of Cicero's *Orations*, also a tragedy, biographies, and a dialog on painting. See Tiraboschi *Storia della Letteratura Italiana*(1772-83); *Biogr Univ*, 11, p 483-5 (a long list of works).

1747. -----1565

Libri Tre | Di M.Lodovico | Dolce; | Ne | Qvali Si Tratta | delle diuerse sorti delle Gemme, | che produce la Natura, | Della Qualità, | grandezza, belezza, & virtù loro. | [woodcut orn] | Con Privilegio. | [rect woodcut vign] | In Venetia Appresso | Gio. Battista, Marchio | Sessa, Et Fratelli.

Colophon: "In Venetia, | Appresso Gio. Battista, | Marchio Sessa, | Et Fratelli. | M D LXV." [Venice, 1565; the woodcut vignette shows Pegasus in an elaborately scrolled frame, ornamented with cupids, wreaths, gryphons, etc, 5.9 x 5.2 cm]

8°: 99, [1 blank]f; A-M^8 N^4; ch orns, inits. 14.4 x 9.7 cm(5 3/4 x 3 7/8 in), Cropped. F 44, 61, 63 misnumb. JSL; Agassiz II, 249; Böhmer,IV, 1,279.

Cont: tp; dedic; pref; text; tab cont; register of sig; colophon.

Upon publication, this book aroused widespread condemnation of Dolce because the book seemed to be a complete plagiarism of Leonardo Camillus's *Speculum Lapidum*, possibly of the 1516 edition of Venice. There is not the slightest suggestion in Dolce's version as to the original source even though the plagiarism is almost verbatim and the system of numbering chapters, with some unnumbered, directly traceable to that employed by Leonardo Camillus. Adams, for example, in his *Birth and Development of the Geological Sciences*, p 155, states "the book also figured in one of the most shameless cases of piracy in the whole history of letters, a well-known author Ludovico Dolce, having made a literal translation of it into Italian, which he published at Venice as his own work, without making the slightest reference to the fact that Leonardus was the author of the book, in fact on page 3 he refers to it as 'mia fatica'."

In general, the text contains extracts from the works of Aristotle, Pliny, Isidore, Dionysius of Alexandria, Albertus Magnus, and others, and emphasizes the curious rather than the scientific. It treats the natural history of gemstones, their properties which make them desirable for wear, distinctions between true and false gems, the colors displayed by gems, an alphabetical listing of over 200 gemstones, other stones, and some rocks, which have been described by previous authorities, and with brief statements as to their nature and attributes. There is a "book" on engraved gems with strong emphasis placed on the mystical signs and symbols engraved thereon, and which by mere presence were supposed to confer magical powers. Also mentioned here are the famous engravers of antiquity and much curious lore as well as excerpts from the works of Salomon, a famous magician, and Hermes, a noted astrologer. Forgiving Dolce's reprehensible conduct in passing off this work as his own, this and the several versions below served to make the excessively scarce *Speculum Lapidum* more widely accessible, albeit in disguise. Ferguson, *Bibliotheca Chemica*, 2, 27; Thorndike, *Hist Magic*, 6, 313; Gatterer 2, no 23.

1748. -----1617, Venice reprint

Trattato | Delle Gemme | Che Prodvce | la natura; | Nel Qvale Si Discorre | della qualita, grandezza, bellezza, | & virtu loro. | Compositione | di M.Lodouico Dolce, da lui | in tre Libri diuiso. | Hora con diligenza ristampato. | Con Privilegio. | [woodcut vign] | In Venetia, M D CXVII. | [rule] | Appresso Cio.Battista, & Gio.Bernardo Sessa.

Colophon: "In Venetia, | [rule] | Appresso Gio.Battista, & Gio. Bernardo Sessa. | M D XCVII[sic];" titlepage vignette of a domestic cat suckling kittens, enclosed in elaborate scrolled & floral frame.

8°: 98, [1] f; A-M^8, N^3, last blank f absent. Ch orns, inits. 15.2 x 10.4 cm(6 x 4 1/8 in). Cropped. Misnumb f: 53, 61, 63. JSL.

Identical to previous but entirely reset. A copy in Brit Mus(Nat Hist) Library is nearly the same but the instruction to the binder reads "Registro. AN. Tutti sono Quaderni.", whereas in my copy it correctly reads "Registro. A...N. Tutti sono quaderni, eccetto N, che e duerno." There is no additional text to account for the extra leaves. Ward & Carozzi, 667, give "188 p."

Thorndike, *Hist Magic*, 6, p 313, mentions "De diversis generibus gemmarum e terra provenientium. Italice, Venetiis, 1566, 8vo," as one of three works on gems written by Dolce, apparently on the authority of Apostolo Zeno (*Lettere*, III, 165, cited by Tiraboschi) who stated them to be "largely a repetition of the work of Camillo Lunardi." I have not been able to confirm the existence this work.

1749. DOLINGER, JANE [KRIPPENE, Mrs K]

Find it if you can | Touch if you dare... | Inca Gold | Jane Dolinger | Illustrated | Henry Regnery Company · Chicago [1968]

16°: 189, [3 blank]p; 15 photos on 4 glossy bound-in f but not includ in pag. Black cloth, gilt spine title. Orange dec dj, portr author on back; resume, vita. 20.7 x 13.7 cm(8 1/8 x 5 3/8 in). Cut. $4.95. LC 68-18267. JSL.

Cont: 1/2tp; other author bks; tp; publ data; tab cont; 13 chs; 3 blank p.

Sensational stories of the conquest of the Incas by Pizarro, his search for gold, subsequent gold seeking in South America, and including in Ch 6, p 73-91, "A Fortune in Emeralds," which gives a few bare facts on emerald and ancient history of same, and, taking up in most of the chapter, all about an emerald deposit supposedly discovered by a certain "young American explorer, by the name of Stewart Connelly" in the remote Amazonian country of Ecuador. No references supplied to the tales nor is there a bibliography.

DOLOMANOVA, E I, see GRIGORIEV, I F

1750. DOMINGUEZ A, RAFAEL ANTONIO

Historia | de las | Esmeraldas | de Colombia [Bogotá: Banco de la Republica, 1965]

The author's introduction is dated 1961, A M Barriga-Villalba's preface dated 1962, but the last page states "La impresión de este libro se terminó en marzo de 1965."

Cementb: [11], 297, [5]p; 3 col pls between p [6-7]; col fig of the "Patricia emerald," p 20,(taken from L J Canova, 1920, which see); 2 part col sketch maps; 8 sketch maps; 5 portr photos; 24 photos; 11 fig(drawings, reprod of documents); some illustrations on leaves not counted in pag. Pale green, thick paper wrap, map of Columbia in white on cover with pale green emerald crystals & cut gems, etc; black spine title; back cover white. 23.8 x 17 cm(9 3/8 x 6 3/4 in). Cut. JSL.

Cont: tp; pref; author's introd; 3 col pls; map; portr of Parra; text tp; text; biblio(p 296-7, 34 entries); tab cont; publ data.

The text is in four parts, with the first treating legends and lore and much on the emerald as it was known to the pre-Conquest Indians in the Muzo region, emeralds elsewhere in the world, famous jewels and gems employing emerald, including remarks on the famous "Patricia" crystal now in the American Museum of Natural History in New York, and other generalities. The second part is a chronology of events from the first appearance of Spaniards on the scene, their attempts to find the deposits, subsequent discoveries and mining, and further events into the present.Part three describes the administration of the mines by the Banco de la Republica from the 1949's up to now, with much information on the mines, decrees, regulations, production statistics, etc, on Muzo and other emerald mines in Colombia. Also in this part is material on synthetic emeralds, properties and values of same, beryllium resources in Colombia, drawings of emerald crystal forms and cutting styles, properties of cut gems, the formation of emerald, composition, "gemelos" or "trapiches," the lapidary industry, etc. The last part reproduces important geological and mineralogical documents concerning the deposits, including some by Miguel Gutiérrez, Robert Scheibe, Peter W Rainier, Miguel Alvarez Uribe, Roberto Wokittel, H Bürgl, E Hubach, Hernán Restropo, and E Nicholls. Works by Scheibe, Rainier, Restropo, and Wokittel are described under their names. The text also gives short biographies of Scheibe, Wokittel, Fritz Klein, and Barriga Villalba. The author was in a position of authority in the Banco de la Republica which enabled him to construct with unparalleled accuracy historical portions of the present work with the best yet information on the Colombian emerald mining industry. Unfortunately, not as much attention has been paid to assembling information on the mineralogy and parageneses noted in the deposits nor to compare views on the vexing problem of their origin.


LIBRI TRE
DI M. LODOVICO
DOLCE;
NE I QVALI SI TRATTA
delle diuerſe ſorti delle Gemme,
che produce la Natura,
DELLA QVALITA',
grandezza, bellezza, & virtù loro.
CON PRIVILEGIO.
IN VENETIA APPRESSO
GIO. BATTISTA, MARCHIO
SESSA, ET FRATELLI.

1747. Famous plagiarism of Leonardo Camillus' "Speculum Lapidum; the date is 1565 given in the colophon

DONATI, VITALIANO (1713-1763)

Ital naturalist; best known for early recognition of the animal nature of coral based on lifelong observations of the natural life in the Adriatic Sea(*Della Storia naturale marina dell'Adriatico*, Venezia, 1750). *Biogr Univ*, 11, p 546-7.

1751. ----1809 XIV. New discoveries relating to the history of coral, by Dr. Vitaliano Donati. Translated from the French by Tho. Stack, M.D., F.R.S., p. 95. *The Phil Trans Roy Soc London... Abridged*, 10, 1809, p 154-61. JSL. Describes precious coral in terms of growth habit, damage due to boring organisms, internal structure, chemical behavior, and the polyps which cover the hard stems. Agassiz II, 252.

DONNAN, J, see CEYLON GOVT PEARL FISHERY REPTS

1752. DONNDORFF, JOHANN AUGUST(1754-1837)

Natur und Kunst | ein | gemeinnütziges Lehr= und Lesebuch | für alle Stände, | herausgegeben | von | Johann August Donndorff, | Fürstl. Quedlinburgisch. Stifts Probsteyrath, der | Kuhrfürstl. Mainzischen Akademie der Wissenschaft= | ten zu Erfurt, un mehrere auswärtigen | gelehrten Gesellschaften, Mitgliede. | [rule] | Erster[-Zweyter] Band. | [taper rule] | Leipzig, | in der Weidmannischen Buchhandlung | 1790[-91].

8°: I:XVI, 573, [1] p, pi^8, A-Mm^8, Nn^7; II: VIII, 775, [1] blank]p, pi^4, A-Bbb^8, Ccc^4. 17.1 x 10.4 cm(6 3/4 x 4 1/8 in). Cut. USGS Kunz Coll, GS 34-448.

Cont: I: tp; dedic; pref; tab cont; 88 chs; errata; II: tp; pref; tab cont; 87 chs; index to both vols; errata; blank p.

Encyclopedic miscellany of knowledge for the general public. Vol II: chs 55-56, p 489-519, on gemstones & ornamental stones including ruby, amethyst, topaz, zircon, emerald, chrysolite, beryl, sapphire, agate, Chalcedony, onyx, sardonyx, carnelian, the hydrophane ("Weltauge") opal, diamond, and more, with current prices given on p 505-14.

1753. DONOVA, KIRA VLADIMIROVNA, et al

State | Armoury | In The | Moscow | Kremlin | [orn] [Moscow: Izobrazitelnoye Iskusstvo Publishing House, 1969] [first 2 lines in red]

4°: XII, [2]p + [101]f, part text, but mostly pls; there are 4 col photo cut-outs tipped-on to pages in the first sect but col pls 1-175 are printed on glossy paper and integral with the text; some of the text paper at the beginning & end is non-glossy & pale tan. V pale gray unfin cloth, silver title in silver frames on cover; silver spine title; inside cover pastedowns black but fly leaves pale green paper. White dj, flap resume, large cover title. White marker ribbon. 32 x 26 cm(12 5/8 x 10 1/8 in). Cut. 10,000 copies. JSL.

Cont: 1/2tp(in red & black); tp; introd; text & pls; commentary; biogr notes; gloss; biblio(81 entries); names index; tab cont; publ data.

Well-manufactured work with generally high-grade color photos, good book design, and good quality materials. Includes crowns, jewels, cameos, and other objects in which gems were used in decoration but on the whole gemstones form only a minor part of this attractive work. Translated into English by Alexandra Ilyinechna Ilf and Natasha Johnstone, with texts by six other authors besides Donova; it is likely that it was translated into other languages; original Russian not seen.

1754. DONOVA, K V, UVAROV, V A, SMIRNOV, V I & KAZAKOV, B M

Sokrovischcha | Almaznogo | Fonda | SSSR [Moskva: Izdatelstvo Izobrazitelnoe Iskusstvo, 1972; title enclosed in orn gold frame]

8°: 54, [1], [1 blank], [136]p; 66 col photos. Plasticized gold paper over bds; title & frame in white, the latter enclosing a col photo on back cover; back cover black with white lett resume. Blue-black moire-type endp. 16.5 x 12.8 cm(6 1/2 x 5 in). Cut. 190,000 copies. 61 k. JSL.

Cont: publ data; tp; authors; introd; cat tp; cat; ill tp; Engl statement; ill; blank p; "notes" leaves; last p bears publ data.

High quality, design, materials, and illustrations provide an attractive treatise on the gems and other objects in the famous "Diamond Fund" of the USSR located in Moscow and on view to the public. The catalog lists 242 items, of which 66 are depicted in color. These include Tsarist jewels, crowns, regalia, orders, exceptionally large diamond crystals from Yakutia, Siberia, one of which weighs 135.12 carats, and a series of gold and platinum nuggets, the largest gold nugget being 36,015.7 gm(the largest ever found in the USSR), and a platinum nugget of 5,918.4 gm, the largest known. Other items are native gemstones, several modern Communist orders, modern jewelry made in the USSR, and both the Orlov and Shah diamonds.

DONOVA, K V & PISARSKAYA, L V, see STEINGRÄBER, E, 1968

D'ORBIGNY, CHARLES & GENTE, A, see ORBIGNY, CHARLES, d'

1755. DORF, ERLING (1905-) Petrified Forests of Yellowstone; Yellowstone National Park, Wyoming, Montana and Idaho. *National Park Handbook Series*, Nat Pk Serv, Washington, D C, vol 108, 31 p, ill; 1980. Not seen. Prev issued as "The Petrified Forests ...", 1964, 12 p, 2 drawings, map, 15 photos, 1 diagram; issued vertically-folded; centerstapled. Unfolds to 23.5 x 20.2 cm(9 1/4 x 8 in). See also his art of same name in *Scient Amer*, 210, 4, Apr 1964, p 106-14, 4 col photos, 2 part-col maps & 1 part col diagr; 9 photos. Same subject also treated by E H Knowlton below.

DOSSIE, ROBERT(d 1777)

Engl apothecary-chem of London; publ works in chem & other fields. Pogg 1, 597; *Biogr Univ*, 11, p 605.

1756. -----1758 The Handmaid to the Arts... London, Printed for J.Nourse, 1758. 8°, 2 vol. Not seen; from Hanmond cat 153, Oct 1966, no 1010.

1757. -----1764, 2nd edit

The | Handmaid | To The | Arts, | Vol. The First[-Second]. | Teaching | ... [summary of cont in 2 cols, divided by central vertical double-rule]... | The whole being calculated, as well for conveying a more accu- | ... [6 more lines]... | The Second Edition, with considerable Additions and | Improvements. | London: | Printed for J.Nourse, Bookseller in Ordinary to his | Majesty. | MDCCLXIV.

8° I: xxvii, [9], 522, [10]p, A^8, a^8, b^2, B-Kk^8, Ll^2; II: xiv, [14] 462, [10]p, A^8, a^4, b^2, B-Gg^8, Hh^4. Cont: I: tp; dedic; pref; tab cont & advert; 3 parts text; index. II: tp; pref; tab cont; 6 parts; append; index.

Famous recipe & instruction book furnishing much valuable information on a large variety of arts & crafts subjects as paints & painting, drawing, gilding, silvering, bronzing, staining various materials, engraving, glass making, porcelain making, marbling of paper, and so on. Mainly of interest to the student of gemology are the detailed and practical instructions for staining ivory, bone, horn, alabaster, marble, and other stones in vol 1, p 515-8, preparation of glasses to imitate gemstones, vol 2, p 287-327, how to make doublets, p 328-32, and making & applying foils to the backs of gems, p 333-42.

DOUGHTY, OSWALD

Engl writer & educator; b Kingston-Upon-Hull; from 1929 to 1954, prof Engl lit Cape Town U, South Afr.

1758. -----1963

Oswald Doughty | Early Diamond Days | The Opening of the | Diamond Fields of | South Africa | [logo] | Longmans [London: Longmans, Green And Co Ltd, 1963]

8°: ix, [1 blank], 237, [1 blank]p; 16 photos on 4 glossy tip-in f; sketch map Griqualand diamond fields. Bright blue-green cloth-like paper over bds; gold spine title; also in olive-green paper over bds. Tan dj, mining scene on cover in pale brown; black lett; resume, vita. 21.5 x 14 cm(a 1/2 x 5 1/2 in). Cut. 25s. JSL.

Cont: 1/2tp; other bks by author; tp; publ data; pref; quotes; tab cont; ill list; ackn; 9 chs; epilog; biblio(p236-7, 47 entries); blank p.

From sources indicated in the bibliography, Doughty pieces together the early history of diamond mining in South Africa. Verbatim extracts from a number of these authorities comprise much of the text. An excellent, readable survey, with fine contemporary photographs of persons, places, and scenes. *Min Abstr*, 16, 5, 1964, p 437.

1759. DOVYDAITIS Lietuvos gintaras [Lithuania's amber]. *Žiupsnelis Populariu Žinių Apie Ji Kai Kuriais Atžilgiais*. Gamtas Draugas. Popularus "Kosmo" Skyrius. 1929. p 73-86, 15 fig. Not seen.

1760. DOWNING, PAUL

Opal Cutting | Made Easy | by | Paul B.Downing | Published By | Majestic Gems & Carvings | 3412 Monitor Lane | Tallahassee, FL 32312 | Copyright 1984 by Paul B.Downing | Second Printing | October, 1984

Centerstapled: 141, 76 p; 10 drawings. Pale yellow print wrap. 21.7 x 13.5 cm(8 1/2 x 5 3/8 in). Cut. JSL.

The author, a professor of economics in Florida State University, Tallahassee, claims 20 years experiences in cutting opal, and in 8 chapters takes the reader from selecting rough through all stages required to bring out a finished gem. Clear, comprehensive, and useful. No references.

DRAGOTSENNYE I TSVETNYE KAMNI, see PETROV, V P

DRAGSTED, AAGE (1886-1942)

A Dragsted 3rd generation of family jewelry firm in Copenhagen, Denmark; his father, Frantz, was appointed Court Jeweler; after his death in 1916, Aage assumed leadership of the firm and upon his own demise in 1942, control passed to his son Ove(see below). Biogr note in reissue of the below book.

1761 -----1933

A.Dragsted | De Aedle Stene | Og Deres Mystik | [logo] | [double rule] | Nyt Nordisk Forlag · Arnold Busck · Kjøbenhavn MCMXXXIII. [Copenhagen,1933]

8°: 239, [1 blank]p. Pale tan wrap, brown & red lett on cover in a large red & brown zodiacal circle of the twelve signs, surmounted by a crown and with imprint below. Foredges overlap; uncut, unopened. 26.1 x 17.1 cm(10 1/4 x 6 3/4 in). JSL.

Cont: 1/2tp; tp; publ data; tab cont; fwd; introd; text; index; blank p.

Long a standard work on the mystical and magical properties and lore of gems in the Danish language. The introduction mentions sources of information and older writings from which the information was drawn, and is followed by an alphabetical list of gemstones, from Agate to Zircon, giving a description for each and the special prooerties ascribed to them. This large section, p 13-152, also includes pearl, coral, and extended discussions of famous diamonds. Other chapters take up astrological affinities, Biblical gemstones, gemstones said to possess medicinal or curative powers, important sources of gemstones, a review of mineralogical characters, lapidary treatment, and the artificial preparation of gemstones and the culture of pearls.

1762. -----1967, 2nd edit by Ove Dragsted

A.Dragsted | De Aedle Stene | Og Deres Mystik | Anden Udgave | Ved | Ove Dragsted | Privattryk | [rule] | København 1967

8°: [4], 239, [1 blank]p. Facsimile of an original MS page; photo portr of Aage D; 2 facsimile signatures. Pale tan wrap, nearly identical in color, design, etc. to the first edit; brown lett spine. Smaller, 22 x 15.6 cm (8 3/4 x 6 1/8 in). Uncut, unopened. Also in a small number of copies bound in dk blue, pebbled cloth, gold lett, rules on spine, 21.2 x 15 cm(8 3/8 x 5 7/8 in). Cut. Te stained bright blue, wraps not included, and in plain gray cardboard shipping box, unlabeled.

Cont: 1/2tp; tp; publ data; tab cont; facsimile MS; portr(with Aage D vita); fwd; fwd to 2nd edit; text; alphabetical list of stones; biblio(31 entries); blank p.

The original text was photographically reproduced but has been augmented in over a dozen places by insertions or corrections, and in one place by substitution of a short paragraph for the original. On p 194-5, the list of geographical sources of gemstones has been entirely replaced. The bibliography is new. Rev *J Gemm*, 13, 5, 1972, p 188.

1763. DRAGSTED, ARENT & DRAGSTED, OVE Guld og aedle Stene, En kortfattet Haandbog ved Arent Dragsted og Ove Dragsted. København: Andr. Fred Høst & Søns Forlag, 1947. 8°: 96 p, 24 col pls in tex; 1 b&w photo; 10 fig. Pale green wrap, crown with black & white lett on cover. 17.8 x 12.3 cm(7 x 4 7/8 in). Cut.

Concise, elementary text on precious metals, gemstones and their properties, cutting, weights, synthetics, imitations, birthstones, coral & pearl, the mineral gemstones, amber & jet, a table of densities, refractive indices, chemical composition and crystal forms. A few copies were bound in pale gray paper over bds, blue leather spine, gold lett & rules, for private distribution by Ove Dragsted.

1764. DRAGSTED, OVE

Ove Dragsted | Guld | & | aedle stene | Høst & Søns Forlag | København [1953]

8°: 115, [1 blank]p; 18 col pls in text & includ in pag; 28 fig; tabs. Red paper wrap, inward fold flaps; title & gem in pale tan & black on cover in ruled frame; spine title; logo back cover; 20.5 x 12.3 cm(8 x 4 7/8 in). Cut. Wraps extend past fe. LC 54-34531. JSL.

Cont: 1/2tp; tp; publ data; fwd; tab cont; text; index; biblio(p 113- 4, 18 entries); index & captions to col pls; blank p.

Outgrowth of previous work but author Ove Dragsted alone. First part of text on precious metals, history, sources, basic scientific information, etc, but by far largest part of text on gemology as in the previous edition. A most attractive and authoritative booklet with extremely fine watercolor plates by Walter Wild, originally in Gübelin's *Edelsteine*, 1952. In the next

issue of this work below, the front matter acknowledges the borrowing of the plates but attributes them erroneously to a "Heinrich" instead of Walter Wild.

1765. -----1955, Norwegian edit

Ove Dragsted | [rule] | Gull | og | Edelstener | Til norsk ved | Trygve Ringereide | Gjennomsett og kontrollert av gullsmed | Øivind Modahl | F.G.A. | [logo] | [rule] | J.W.Cappelens Forlag | Oslo 1955

8°: 123, [2], [3 blank]p; 18 col cut-out pls mounted on both sides of 9 tip-in stiff black paper f; 2 b&w photos on a tip-in glossy pl; 13 fig. Heavy white inner paper wrap, enclosed by thin paper outer wrap with inward fold flaps and with front cover black with col lett & gems; spine title; white back cover with logo. 23.8 x 17.9 cm(9 3/8 x 7 in). Te uncut. JSL.

Cont: 1/2tp; tp; publ data; fwd; tab cont; text; index; biblio(18 entries); note on Gen Electric synth diamonds; 3 blank p.

Beautifully-produced, handsomely designed, on very pale tan paper of high quality; the color plates now effectively displayed against black grounds. Note on diamond synthesis by Modahl.

1766. -----1972, 3rd edit, Copenhagen Same title. P [4]: "3.udgave 1972." 8°: 114, [2 blank]p; same ill, one text fig with minor change; same wrap but title on cover now in b&w lett. 20.1 x 12.2 cm(7 7/8 x 4 7/8 in). Cut. ISBN 87 14 27262 8. In plain white cardbd slipcase. JSL. Numerous minor changes in text; some additions and revisions. Col pls now supplied with captions; former index to pls omitted. Biblio now contains 39 entries. Rev *J Gemm*, 13, 7, 1973, p 281.

1767. -----1972.

Ove Dragsted | Aedelstene | I Farver | Smykkestene Og Lykkestene | Farveplancher og tektsillustrationer | Otto Frello | [logo] | Politikens Forlag | København | 1972

12°: 345, [2 advert], [1 blank]p; 820 full col ill on 48 glossy f bound-in between p 96-193; many dozens of text fig, tables. Blue unfin cloth, gold quartz crystal group on cover; gold spine title. Col dj, advert. 17.8 x 11.7 cm(7 x 4 5/8 in). Cut. ISBN 87567 1395 9. Kr 38. JSL.

Cont: 1/2tp; tp; publ data; fwd; tab cont; introd; text; col pls sect; explan of col pls; biblio(p 329-33, ca 195 entries); indexes; advert; blank p.

The most striking feature of this popular work on gemstones surely is the series of color illustrations specially prepared for this production by Otto Frello and upon which no less than 820 individual figures appear. These range from single faceted or cabochon gems or crystals, to crystal groups, many types of jewelry, figurines, and other objects in which gemstones form all or part of the whole. The many text figures were also done by Frello and are equally intriguing. There is a lengthy description of all the objects depicted giving sources of the materials(s), properties, and other features of interest. On the whole, Frello has done his work well and most of the items are readily recognizable although the colors tend to be vivid if not garish.

The first portion of text covers the main elements of gemology as occurrences, crystallography, nomenclature, curious lore, lapidary treatment, carat weight, settings & jewelry, scientific gemology, collecting, and a table of properties. The subject matter is treated unevenly however, some parts being readily assimilable by the general public, but other parts, eg, crystallography, being far too difficult unless the reader has had considerable mathematical grounding. Rev *J Gemm*, 13, 7, 1973, p 281.

1768. -----1972(?), Ger edit

Ove Dragsted | Edelsteine | in Farben | Farbtafeln und | Textillustrationen von Otto Frello | Universitas Verlag Berlin [nd]

12°: 372 p; same ill. Purple leatherette cloth, gold gem on cover(upside down!), gold spine lett. Col dj, resume, other publ bks. 18 x 11.7 cm(7 1/8 x 4 5/8 in). Cut. DM 25.- JSL.

Cont: logo; tp; publ data; tab cont; introd; text; biblio; gemstone index; persons & topics indexes.

Translated by Dagmar-Renate Jehnich under the technical supervision of Christian Schweitzer and Christian Weise. Rev *Zs Dt Gemm Ges*, Jg 23, H 3, 1974, p 224-5, "astonishing abundance of knowledge offered in limited space."

1769. -----1975, Engl edit, London

Gems | And | Jewellery | in colour | Ove Dragsted F.G.A. | Illustrated by Otto Frello | Blandford Press [Poole, Dorset, 1975; "Blandford Colour Series"]

8°: [2 blank]f serving as front pastedown & flyleaf + 232 p; same col ill on glossy paper between p 56-153; several text fig omitted. Pale tan cloth-type paper over bds; gold lett spine & logo. Col dj, resume, vita, other publ bks. 18.1 x 11.7 cm (7 1/8 x 4 5/8 in). Cut. £3.25 net. ISBN 0 7137 0678 3. JSL.

Cont: blank f; 1/2 tp; tp; publ data; tab cont; ackn; introd; 11 chs; pls tp; pls note; pls; pls descriptions; biblio(61 entries); index.

A drastically reduced rendition of the original text, with some modification and rearrangement of the information retained. Much of the technical information in the first part is omitted, especially that on crystallography and other difficult sections of the original. The book is therefore smaller and at the same time more useful to the layman. The bibliography omits most references to non-English works.

1770. -----1975, New York edit

Gems | And | Jewelry | in color | ... [2 lines]... | Macmillan Publishing Co., Inc. | New York [1975; "Macmillan Color Series"]

8°: same pag, ill, etc. $7.95. ISBN 0-02-533500-6; LC 75-2391. JSL.

Only first two leaves reset; remainder identical to the London edition and retaining even the spellings.

1771. -----1967 Aedelstene på Grønland, *Tidsskriftet Grønland*, Copenhagen(?), Apr 1967, p 115-26, 2 photos. JSL. Brief account of Greenland gemstones: varieties of quartz, garnet, tourmaline(not gem quality), kornerupine, sapphirine(doubtful gem quality), moonstone, freshwater pearl, amazonite, labradorite, etc; mentions previous mineralogical investigations in Greenland. Photos of tugtupite cut & rough.

DRAPER, DAVID(1849-1929)

S African geol; b Cape Town; hon DSc U Witwatersrand 1927; to Kimberley in 1868; spent several years studying diamond deposits of Brazil; a founder of the Geol Society of S Africa. Obits H S Harger, *Trans Geol Soc S Afr*, 33, 1931, p 19-30, portr pl; *Nature*, 125, 1930, p 714; L J Spencer, *Min Mag*, 22, 131, 1930, p 391.

1772. -----1897 Note on diamonds at Rietfontein Farm. *Trans Geol Soc S Africa*, 3, 1897, p 19-29, 34-44. Not seen.

1773. -----1929 The birth of the diamond industry in South Africa. Part 1. An account of the period 1868-1875. *South African Mining and Engineering J*, 40, 1, 1929, p 675-753, passim; 2, 16-268, passim. Part 2. Notes on the genesis of the diamond. 40, 2, p 304-572, passim. Despite paginations, there are only about 40 pages of text in numerous instalments. Not seen. "Rich local colour and descriptions of pioneering conditions."

DRAPER, DAVID, see KENTUCKY TRANSVAAL DIAMOND MINING CO.

1774. DRAPER, DAVID & FRAMES, MINETT E

The Diamond, | A Pamphlet describing the most reliable indications and the | principal minerals associated with the | Diamond in South Africa, | With Hints To Prospectors In Search Of | These Gems. | [double rule] | Illustrated With Map And Sections. | [double rule] | By | David Draper, F.G.S., And Minett E.Frames. | [double rule] | Price 5s. | [double rule] | Johannesburg: | Matthews & Walker, Printers | 1898.

Edgestapled: 40 p; 5 pls. Pale blue wrap, title on cover; advert back cover & inside covers. 21.3 x 13.8 cm(8 3/8 x 5 1/2 in). Cut. JSL.

Cont: tp; dedic: introd; tab cont; Pl I.; 7 chs.

Useful and practical guide: what diamonds are, what they look like, how one goes about prospecting for them, with succinct remarks on properties of diamond, mineral associates, type deposits, descriptions of several pipe mines, prospecting procedures, recovery of stones. Plates show a specimen of kimberlite, in color, with diamond crystal and several associated minerals, also a geological cross-section, a section of a pipe, and a part-col map of South Africa. Issued by a firm of diamond dealers; very scarce.

1775. DRAPER, MARY ANNA (PALMER) "Mrs HENRY DRAPER," (d 1914) Catalogue of rare engraved gems, ancient Greek, Roman and other coins, amulets, rosaries and other objects of archaeological interest, collected by the late Mary Anna Palmer Draper... to be sold... at the American Art Galleries... New York... Catalogue written by Mr. Garrett Chatfield Pier and Mr.David Proskey. [New York, American Art Association, 1917]. 104 p, 23 cm. Date of sale: April 13th and 14th, 1917. Not seen: USGS Kunz Coll, GS-34-372.

1776. DRAPER, THOMAS Diamond mining in Brazil. *G & G*, 6, 8, 1949, p 231-42. The origin and distribution of diamonds in Brazil, 6, 9, 1950, p 298-306. The gemstones of Brazil, 6, 12, 1950, p 369-75 (with list of largest diamonds found in Brazil). The diamond mines of Diamantina - past and present, Part 1, 7, 1, 1951, p 49-57; Part 2, 7, 2, 1951, p 89-98.

1777. DRAVERT, P L Dragotsennye kamni Sibiri. *Sibirskie Ogni*, no 5-6, 1923, p 187-206. Not seen.

1778. DRAYSON, ALFRED WILKES(1827-)

The Diamond Hunters | Of | South Africa | By | Major-General A.W. Drayson, F.R.A.S. | Author Of 'Among The Zulus,' 'Tales At The Outspan,' | 'The White Chief,' 'From Keeper To Captain,' | Etc. Etc. | Illustrated By A.W.Cooper | [logo] | London | Griffith Farran Okedon & Welsh | Successors To Newberry And Harris | And Sydney [nd, 1889]

8°: 383, [1 blank]p; front pl & tissue, integral with first gathering and includ in pag; 4 other integral, paged pls; many small text ill; ch orns, orn inits. Pink or blue cloth, gold & black lett with negro's head on cover; gold title, etc on spine. Pale green floral endp. 18.5 x 13.1 cm (7 1/4 x 5 1/8 in). Aeg. JSL.

Cont: 1/2tp; other author bks; pl; tp; publ data; tab cont; ill list; 44 chs; blank p.

Fictional adventures of a young man born to an English immigrant family in South Africa and settling in Natal. Mendelssohn: "Hunting scenes in Zululand and Natal... well described and very entertaining, and the author evidently had an intimate knowledge of the life pursued by the Boers and the native inhabitants of the country." There is a section on surreptitious mining for alluvial diamonds, but on the whole, the book proves disappointing in regard to diamond mining and is merely one of those that takes a glamorous, if misleading title to entice buyers. A later edition, with the title "Early Days among the Boers; or, The Diamond Hunters of South Africa," was published in London by Griffith, Farran, Browne & Co., Limited, no date, 383 p; not seen, from Mendelssohn.

1779. DRÉE, ÉTIENNE GILBERT, *Marquis de* (1760-1848)

Catalogue | Des Huit Collections | Qui Composent | Le Musée Minéralogique | De Ét.De Drée, | Avec Des Notes instructives Sur Les Substances Pierreuses Qui Sont | Employées Dans Différens Arts, Et Douze Planches En TailleDouce. | [taper rule] | A Paris, | Chez Potey, Libraire, Rue Du Bac, N°46. | [wavy rule] | 1811.

4°: [3], [1 blank], 304 p; 12 engrav pls bound-in at end of text. 25.5 x 20.5 cm(10 1/8 x 8 1/8 in). Cropped. USGS Kunz Coll, GS 34-246; JSL;Agassiz,II,263.

Cont: 1/2tp; printer; tp; object & plan of museum; div of the museum; 8 sects(corresponding to the 8 collections); suppl(to 6th, 7th, 8th coll); tab cont; errata; pl explan; pls.

As to the actual author, Dana, *7th System*, 1, p 68, notes that Dufrénoy "speaks of it as the work of M. Leman." This famous and important collection was divided into 8 categories: 1 mineralogical, 2 petrological, including meteorites, 3 volcanic products, ie, igneous rocks & lavas, products formed through the action of fire, vapors, etc and artificial furnace products, 4 paleontological, 5 rocks & ornamental stones shaped into plaques and polished and including jades, quartzes, feldspars, lapis, serpentines, marbles, alabasters, fluorites, amber, malachite & hematite, 6 gems and precious stones, p 79-140, in which is included all the usual species and many minor ones, all briefly described, with varieties and property data given, and followed in the same section by discussion of lapidary work, foils for gem backs, and a catalog of gems with type cut, size, weight, etc, 7 engraved gems and dendritic or figured agates, p 141-99, treated as in the previous section, with remarks on the significance of engraved gems, minerals employed for same, dendritic agates, catalogs, and, lastly, 8 the collection of ornamental objects as vases, urns, pedestals, p 200-94, carved from ornamental rocks or gemstones as lapis, obsidian, jade, rock crystal, and others. The several supplements are additions to the collections. Notable are the exquisitely engraved plates, by La Guiche, designer, and Lecerf, engraver, which depict some of the faceted gems, a fine

dendritic agate, a coupe, engraved gems, and numerous ornamental objects. The catalog would be valuable by itself but is greatly enhanced hy the careful, well-chosen comments which form large and important parts of each section. A very scarce work. According to U Burchard, *Mineral Museums of Europe*, 1986, p 78, the Drée collection of 15,000 specimens was acquired by the Musée de Minéralogie de l'École Nationale Supérieure des Mines, Paris, in 1845.

1780. -----1814, another edit

Catalogue | Des | Objets Rares Et Précieox | Formant Les Huit Collections | De | Pierres Fines, Ou Gemmes Taillées; | Pierres Gravées, Agates Arborisées, Et Autres Bijoux; | Monumens Et Meubies d'Agrément; En Roches, etc.; | Roches Et Pierres En Plaques Polies; | Minéralogie; | Roches Et Pierres; | Produits Volcaniques; | Corps Organisés Fossiles; | Qui Composent | Le Musée Minéralogique | De M. Le Marquis De Drée. | [Taper rule] | Se trouve A Paris, | Chez [curved bracket enclosing 4 lines:] M.Paillet, Commerçant en objets d'arts, rue Montmartre, | n°173; B M. Léman, rue Saint-Dominique, n°11, Faubourg Saint- | Germain. | [orn rule] | 1814.

8°: vj, 139, [1 blank], [2]p. 19 x 12 cm(7 1/2 x 4 3/4 in). Cropped BM(NH) copy; USGS GS5-498, slightly larger, 20 1/2 cm.

Cont: tp; pref; notice; abbrev & measures; text; index; errata.

Another and different catalog of the collections, with the first part consisting of 300 specimens of cut gemstones as diamond, corundum, topaz, peridot, emerald, garnet, and many other species and varieties, p 3-27. The second part consists of engraved gems, agates with dendrites, etc, and other objects of ornament totaling 286 pieces, p 29-54. The third part takes in the massive stones as lapis, jade, amazonite, prehnite, rock crystal, and others, p 55-87. The next part is similar but consists of the polished plaques of stones, p 89-97. The catalog described below is essentially the same and suggests that various approaches were tried to interest buyers for these large and no doubt expensive collections.

1781. -----1816, another edit

Description | Des Objets | Composant les 4 Collections | De | Monumens Et Meubles D'Agrément En Roches, etc; | Pierres Gravées, Agates Arborisées, etc., etc.; | Pierres Fines Ou Gemmes Taillées; | Roches Et Pierres En Plaques Polies; | Qui Font Partie Du Musée Minéralogique | De M. Le Marquis De Drée. | Cette Description contient toutes les augmentations faites | à la Collection, depuis la publication du Catalogue de ce | Musée, en 1811, un vol. in-4°, et forme le complément | de ce Catalogue. | [taper rule] | Dubray, Imprimeur, rue Ventadour, N° 5. | [rule] | 1816.

4°: [4], 139, [1 blank]p. Pale gray plain wrap. 24.6 x 19.7 cm (9 5/8 x 7 3/4 in). Cut. USGS Kunz Coll, GS 33-325.

Cont: tp; notice; tab abbrev & measures; cat; errata; tab cont. blank p.

1782. ----1816, auction catalog

Catalogue | D'Objets Rares Et Précieux, | Consistant: | 1°. En Statues, Monumens antiques, Colonnes, Vases, | Trépieds, Cheminées, Pendules, Tables, etc., en granit, | porphyre, lapis, serpentine et marbres les plus beaux, etc., | 2°. En Pierres gravées antiques et modernes, en agates | arborisées et en autre Pierres employées en bijoux; | 3°. En Diamans, Rubis, Grenat, et toutes espèces de Pierres | fines taillées, et du plus beau choix; | 4°. En plaques polies d'agate, jaspe, avanturine, granits, | brèches, marbres etc., toutes de la plus belle qualité. | Ces Objets Formant Quatre Collections: | De Monumens Et Meubles D'Agrément En Roches, etc.; | De Pierres Gravées, Agates Arborisées; | De Pierres Fines Ou Gemmes; | De Roches Et Pierres En Plaques Polies; | Qui Faisient Partie Du Cabinet Et Musée Minéralogique | De M. Le Marquis De Drée, | La Vente de ces Objets aura lieu en son Hotel, rue St.- | Dominique, n°11, le lundi 27 janvier 1817 et jours | suivans; l'Exposition sera publique, à compter de | Dimanche 19 janvier, depuis midi jusqu'à trois heures. | Le Présent Catalogue Se Distribue: | Chez [curved bracket, enclosing 6 lines:]... | [double rule] | Nota. Les Personnes qui auraient des motifs pour voir le Cabinet avant | l'Exposition publique, sont priées de s'adresser a l'un de ces trois Messieurs, | ou a M.Léman, rue St.-Dominique, Faubourg-St.Germain, n°.11 | [rule] | 1816.

8°: [21, vi, 159, [l blank]p. 18.7 x 12.3 cm(7 3/8 x 4 7/8 in). Cut. BM(NH).

Cont: tp; places where cat to be bought; pref; abbrev & measures; text; errata; blank p.

1783. DREHER, O

Dr. O.Dreher | Das | Färben des Achates | [4 dots] Idar 1913 [4 dots] | Verlag E.Kessler [title enclosed in double-rule frame]

Centerstapled: VI, 20 p; stiff, pale tan wrap, tp on cover also. 14.5 x 10.5 cm(5 5/8 x 4 1/8 in). Cut. JSL. Cont: tp; tab cont; fwd; introd; cleaning agate; most important colors; precautions.

Simple instructions for dyeing agates red, green, black, or blue; based on observed commercial practise in Idar-Oberstein, Germany. Rare.

1784. DREW, LESLIE & WILSON, DOUGLAS

Argillite | Art | of | the | Haida | by Leslie Drew | and | Douglas Wilson [there is a line drawing to left on the titlepage; North Vancouver, British Columbia: Hancock House Publishers Ltd., 1980]

8°: 313, [3 blank]p; ca 315 photos & line drawings; 2 maps; decorated part titles; many ill in the margins. Brown cloth-type paper bds, pale gray spine title; yellow & white dj with col photos; flap resume; author vitas. 27.9 x 21.4 cm(11 x 8 3/8 in). Cut. ISBN 0-88839-037-8. $35.00. JSL.

Cont: 1/2tp; front photo; tp; publ data; tab cont; dedic; fwd; introd; 35 chs in 7 pts; 5 appends(biblio, p 303-6, 89 entries); index; 3 blank p.

Fully detailed study of the Haida Indian art as expressed in their carvings in argillite. Drew, a newspaper reporter and editor apparently wrote the text based on input from Wilson, a Haida, and an established professional carver. This is the first major, scientifically researched monograph on the argillite carving art, yet written in an easily assimilable and interesting style. The text provides a history of the Haidas, describes their lands and lives, the geology & mineralogy of the argillite deposit, the preparation and carving of the material, the origin of the art and its subsequent development and transformations as a result of visits by explorers and buyers, symbolism, types of objects carved, past masters of the art and their signatures, and advice on collecting. There are also a chronology, a list of carvers, with notes on their specialties, and argillite carvings in museums of Canada, the

United States and elsewhere. The illustrations are varied but mostly they depict carvings and persons in the case of photographs, or symbols in the case of line drawings.

1785. DREW, WILLIAM The art of making coloured crystals to imitate precious stones to which are added, numerous explanatory notes; and a short account of the nature and composition of the true gems, etc. 8°: 60 p, 1 pl, no place, 1787. Not seen.

DREW, W, see FONTANIEU, P E, 1787

1786. DRIUZZO, FRANCESCO Le gemme per le nozze Tiepolo-Nani. Venezia, nella tipografia Pinelli, 1812, 8 p, leaf, 134 p, 2 f includ front; ill, pls. 26 cm. Title vignette. "Anacreontiche e note dell'abate Francesco Driuzzo." This edition consists of 200 copies. USGS Kunz Coll; GS 34-593. Not seen.

1787. DRUCKER, PHILIP The Cerro de las Mesas offering of jade and other materials. *Smithsonian Inst, Bu Amer Ethnol, Anthropol Papers*, No 44, from *Bu Amer Ethnol Bull* 157, 1955, p 25-68, Pls 27-54. Edgestapled, separately printed, supplied titleleaf, pale gray printed wrap, 23.2 x 14.7 cm(9 1/8 x 5 3/4 in).

Objects recovered from a mound in 1941 in the State of Vera Cruz, Mexico, but writer did not see them until he traveled to Mexico City in 1952 to visit the Museo Nacional; generally small size objects, human figurines, plaques, earspools, disks, beads, etc; biblio 11 entries.

1788. DRUKKER & ZON, D Diamant in kunst en industrie. Uitgegeven ter gelegenheid van die opening van het niewe gebouw van D.Drukker & zn, Sarphatikade 12, Amsterdam in het jaar 1955. Priv publ 1955. Edgesewn: 36 p, 14 text photos, pale gray print wrap, flaps folded inward and cemented in place. 21.6 x 12 cm(3 1/2 x 4 3/4 in).

The role of diamond in art and industry, issued upon the occasion of the dedication of a new factory for the company.

DSCHANASCHWILI, M G, see EPIPHANIUS, 1898

1789. DU *Du - Kulturelle Monatschrift*, Jg 18, Nr 11, Nov 1958, Zürich, Entire issue of this periodical(102 p) devoted to gemstones, including articles on engraved gems(fine ill), brief history of Oppenheimer Family, interview with Dr E Gübelin, extracts from Hildegard von Bingen's work on stones, and others.

1789A. DUBIN, LOIS SHERR

The History of | Beads | from 30,000 B.C. to the present Lois Sherr Dubin | Original Photography by Togashi

Facing tp(verso): "Harry N.Abrams, Inc., Publishers, New York [1987]"

Title spread over 2 p; col photo bead necklace over both; lett in red, blue & black.

8°: 364 p; 3-fold col photo chart of bead histories, tip-in betw p 328-9, unfolds to ca 81 cm(32 in), folds already cracking; 356 photos, drawings, maps(includ 254 col pls). Unfin blue silk, blind title on front cover, silver spine title, photo endp. Col plasticized dj, top & bottom edges folded inward. 29.8 x 22.7 cm(11 3/4 x 9 in). Cut. Ca $64.00. LC 87-1428; ISBN 0-8109-0736-4.

Cont: 1/2tp & col photo; tp(2 p(; doublep col photo; dedic & publ data & captions; tab cont; fwd; ackn; introd; text; fold chart; key to same; bead shapes tab; gloss; notes; biblio(p 350-6, ca 350 entries); index; photo credits.

This by far the finest and most comprehensive monograph on beads that has ever appeared and is especially enhanced by the abundance of appropriate illustrations of highest quality. The text covers every aspect of the world of beads, how they came into existence, their uses, materials, manufacture, symbolisms, etc. Needless to say the gemologist will find a great deal of interesting and informative material within its covers but data on gemstones is found scattered and one must refer to the index to be sure of consulting the many places in the text where they are discussed or mentioned. In addition to the beads made from gemstones, Dubin also includes pearls, shell, amber, and other organic ornamental materials. The large bibliography lacks paginations for books but such are provided for journal entries. Conspicuous by their absence are a number of modern books on gemology that would have been better choices than those the author selected.

1790. DUBOIN, A Les alumines chromées et la constitution du rubis. Grenoble, Imprimerie Allier Frères, 1902, "extrait des *Annales de l'Universite de Grenoble*, t XIV, 1902." Centerstapled separate, gray printed wrap, 30, [2 blank]p, tissue flyleaves. 25.3 x 16.5 cm(10 x 6 1/2 in). Uncut. JSL. A study to determine the quantity and the combined state of chromium oxide in synthetic and natural ruby.

1791. DUBOIS, LÉON JEAN JOSEPH (1780-1846)

Choix | De Pierres Gravées Antiques, | Égyptiennes Et Persannes, | Recueillies Pendant Un Voyage Fait Au Levant En L'Année 1815; | Précéde | D'Observations Sur L'Étude De Ces Antiquités; | Dédié | A S.A.R. Monseigneur Le Duc De Berry; | Par L.J.J.Dubois, Dessinateur. | [engrav vignette] | A Paris, | Chez L'Auteur, Rue Du Cherche-Midi, N°2; | Et Goujon, Libraire de LL.AA.RR. Mesdames La Duchesse De Berry, et la Duchesse | D'Orléans, rue du Bacq, N° 33. | [rule] | 1817.

4°: [4], 40 p; pi^2, $1\text{-}5^4$; engrav headpc; engrav scarab; 5 engrav pls tipped-in & bound-in. 29.6 x 22.5 cm(11 3/4 x 9 in). Uncut. JSL.

Cont: tp; print data; dedic; pref; text & pls.

Brief essay on Egyptian and Persian engraved gems: types of engraving used, origin of the art; typical subjects; materials used; previous descriptions of similar examples in the annotated bibliography, p 24-32, 26 entries, most on engraved gems. The gems upon the plates are described, with gems drawn in outline style and with a size bar beneath each. Goodland, *Biblio Sex Rites*, p 171.

1792. -----1822

Catalogue | D'Une Collection | De | Pierres Gravées | Antiques Et Modernes, | Par L.J.J.Dubois. | [logo] | Imprimèrie De Dondey-Dupré, | Rue St.-Louis, N° 46, au Marais. | [orn rule] | 1822.

8°: 44, [1], [3 blank]p. Greenish-blue wrap, title on cover in elaborate frame. 19.5 x 12.8 cm(7 3/4 x 5 in). Cut. USGS Kunz Coll.

Cont: tp; cat of 463 nos; tab cont; 3 blank p.

Brief descriptions of engraved gems classified as Egyptian, Greek, and Roman mythological subjects.

1793. DUBOIS, RAPHAEL(1849-1929) Contribution a l'étude des perles fines de la nacre et des animaux qui les produisent. *Annales de l'Université de Lyon*, n sér, I Sciences, Medécine, Fasc 29, 1909, p 1-127, 10 fig, 4 pls bound-in, one col. Also sep, pale green wrap, title on cover & spine. 25.4 x 16.5 cm (10 x 6 1/2 in). Fr 6. USGS Kunz Coll. Cont: 1/2tp; print data & limited edit no; tp; introd; 8 chs; conclusions; tab cont; blank p; pls.

A fine, detailed essay on the structure of nacre and pearl, chemistry, physical properties, color, sizes, volumes, X-ray researches on pearls of *mytilidae*, the *pinna, margaritifera*, description of pearl culture in Japan, and characteristics of Japanese culture pearls. Dubois was an eminent French biologist, prof in U of Lyon, etc, but best known for his researches in the cause of phosphorescence in organisms.

1794. DUDICHNÉ VENDL, MÁRIA & KOCH, SÁNDOR

A | Drágakövek | Különös Tekintettel | A Mesterséges Drágakövekre | Írta: | Dudichné-Dr.Vendl Mária | Dr. Koch Sándor | Budapest 1935 | Kiadja A Királyi Magyar Természettudományi | Társulat

Vol 104 of *A Királyi Magyar Természettudományi Társulat*, published by the Royal Hungarian Natural Science Society.

8°: VI, 468 p; tip-in glossy photo front pl + 46 photos on 12 glossy f bound-in & tipped-in; 25 (actually 26) fig. Brown cloth, blind frame on cover enclosing title & cut gem in gold; gold lett & soc logo spine; blind frame & logo back cover. Pale gray endp. 21.7 x 15.5 cm(8 1/2 x 6 in). Cut. 15 pengo. JSL.

Cont: ser 1/2tp; ser full tp; pl; tp; publ data; tab cont; introd; 4 parts; index.

A major, detailed treatise on gemology and so far as I can learn the only such large monograph in the Hungarian language. The first part treats history of gemstones, their uses, properties, and cutting, with a brief section on crystallography and a substantial section on optical properties. Numerous small line-drawings of facet gem shapes appear in the section on cutting. The second, and longest part, is descriptive and treats all the major gemstones as well as many of lesser importance; it commences with diamond and ends after some 35 stones have been described; there is a large section on opal. The third part treats artificial stones, imitations and counterfeits. The last part is on pearls but also includes a short section on coral. The photo plates are of fair quality and depict many kinds of rough, cut stones, logical testing instruments, views, etc. An extremely rare work outside of Hungary.

1795. DUFAY, CHARLES FRANÇOIS DE CISTERNAY (1698-1739) Recherches sur la lumière des diamants et de plusiers autres matières. *Mémoires, Histoire de l'Académie Royale des Sciences*, Paris, 1755, p 347-72; not seen.

DU HAMEL, JEAN-BAPTISTE (1624-1706)

Fr savant; b Normandie; stud Caen & Paris in maths, physics, astron, geol. *Biogr Univ* 12, p 183-5.

1796. -----1660

Ioan. Bapt. Dv Hamel | De | Meteoris | Et | Fossilibvs | Libri Dvo. | In Priore Libro mixta imperfecta, quaeque in su- | blimi aëre vel gignuntur, vel, apparent, fusè pertractantur. | Posterior Liber mixta perfecta complectitur; | vbi salium, bituminum, lapidum, gemmarum, & metal- | lorum naturae, causae, & vsus inquiruntur. | [floral woodcut orn] | Parisiis, | Apud Petrvm Lamy, in magna aula Palatii, secunda | columna, sub Magno Caesare. | [rule] | M.DC.LX. | Cvm Privilegio Regis. [1660]

4°: [27], [1 blank], 310, [6]p; a^4, e^4, i^4, o^2, A-Qq^4, Rr^2. Ch orns. 23.6 x 17.9 cm(9 1/4 x 7 in). Cropped. BM(NH) Libr; GS 34-596, Kunz Coll.

Cont: tp; dedic; laud by Perier; laud by Brebeve; pref; tab cont; text in 2 bks; index; priv.

Ch 8 of the second book, p 217-33, briefly treats gemstones, giving remarks on their nature, origin, adulterations, and other topics, followed by descriptions of rock crystal, diamond, opal, emerald, beryl, turquoise, garnet, amethyst, and others; much of the information is derived from Albert the Great, particularly in regard to curious lore and including a number of now unrecognizable gemstones. None of the information appears original.

1797. DUKE, ALTON

Arizona | Gem | Fields | *** | By | Alton Duke | Post Office Box 1402 | Yuma, Arizona | Price $2.00 | *** | Printed By | Southwest Printers | Yuma, Arizona [1956]

Edgestapled: 116 p, 16 sketch maps, 3 photos. Heavy white paper wrap, col photo on cover, title in blue. 20.2 x 13.7 cm(8 x 5 3/8 in). Cut. JSL.

Field trips for Arizona gemstones, mainly varieties of quartz, with advice on travel hazards, esp in the desert. State divided in 4 regions, text accordingly. Miscellaneous information on poisonous creatures, some gemstones of special interest, and gemstone hardness. A successful guide, 2nd edit, 1957, 132 p,4th edit, 1960, not seen.

DULAC, JEAN-LOUIS ALLÉON, see ALLÉON-DULAC, J-L

DUMERSAN, THÉOPHILE MARION (1780-1849)

Fr archeol, antiquary, poet, playwright; stud under A-L Millin & assisted in classif of thousands of medals, etc in Cabinet des Medailles, Bibliotheque Royale, Paris; in later life, devoted to theater for which he wrote numerous plays. *Dict Biogr Fr* 12, 164-5.

1798. -----1825

Notice | Des Monumens | Exposés Dans Le Cabinet | Des Médailles, Antiques, | Et Pierres Gravées | De La Bibliothèque du Roi; |... | Par M.Dumersan. | Nouvelle Édition, Augmentée. | [double rule] | Prix: | Franc. | [double rule] | [royal crest] | Paris, | Chez M.Journé, rue Neuve des Petit-Champs, n°12. | [double rule] | Imprimerie De A.Coniam, Faub. Montmartre, N°4. | 1825.

8°: 44 p; plain gray wrap. 22.3 x 14 cm(8 3/4 x 5 1/2 in). Uncut. USGS Kunz Coll.

Brief descriptions of the objects in the Royal Cabinet of Medals, Antiques and Engraved Gems in the Royal Library, Paris, with remarks on the founding of the cabinet and major acquisitions.

1799. -----1836 Notice sur la Bibliothèque et particulièrement sur le Cabinet des Médailles, antiques et pierres gravées. Paris, 1836, 8°, pages not stated, 22 pls. "Nouvelle édition corrigée et augmentée... contient une description des objets... notes historiques sur sa fondation... Dumersan était premier employé au cabinet des Medailles." Not seen, from P Chamonal cat, Paris, Feb 1982, no 193.

1800. -----1838

Histoire | Du | Cabinet Des Médailles, | Antiques Et Pierres Gravées; | Avec | Une Notice | Sur La Bibliothèque Royale, | Et Une | Description | Des Objets Exposés Dans Cet Établissement; | Par Marion Du Mersan, | Du Cabinet Des Médailles, | Chevalier De La Légion-D'Honneur. | [woodcut vign] | Paris, | Chez L'Auteur, | Rue Neuve-Des-Petits-Champs, N°12. | [Rule] | 1838.

8°: [4], IV, 191, [1], p. Printed wrap(?). Ca 20.5 x 12.5 cm(8 x 5 in). Cropped. JSL.

Cont: 1/2tp; publ data; tp; 2 poetic quotes; introd; 2 part text; index.

Similar in content and arrangement with above catalogs of the collection; 928 intaglios and 305 cameos listed p 70-126.

DUMONT, GEORGES(1849-ca 1900) & JOURDAN, ÉDOUARD

G Dumont Fr civil engineer; publ numerous scientific/technological articles on canals, irrigation, electricity, acetylene, elevators, and other topics. *Dict Biogr Fr*, 12, 215-6.

1801. -----1886

Les | Pierres Précieuses | Par MM. | [to left, in column:] Georges Dumont | Ingénieur des Arts et Manufactures, | Professeur à l'École des Hautes études | commerciales, | Inspecteur principal | aux Chemins de fer de l'Est. [vertical rule; to right, in column;] Édouard Jourdan | Ingénieur des Arts et Manufactures, | Directeur de l'École des Hautes études | commerciales, | Membre du Conseil supérieur | de l'Enseignement technique. | [facet gem] | Paris | Anciennes Maisons Larousse et Boyer | Vve P.Larousse Et Cie Imprimeurs-Éditeurs | 49, Rue Saint-André-Des-Arts, 49 | [rule] | Tous droits réservés. [1886]

At head of title: "Technologie | Commerciale & Industrielle | [wavy rule]"

8°: 77, [1 blank], [2] p; 56 wood engrav. Print wrap. 21.7 x 11.4 cm (8 1/2 x 5 1/2 in). Uncut. Paper badly browned, brittle. USGS Kunz Coll, GS 33-327; JSL.

Cont: 1/2tp; tp; pref; text; tab of gem tariffs; gloss; tab cont; advert.

Very brief descriptive work on gemstones, largely devoted to the diamond, and, curiously, the next greatest emphasis is upon members of the quartz family. Sketchy descriptions of other gemstones follow, along with a table of artificial gems and a table of tariffs laid upon gem imports. The glossary, from J Bossière's *Dictionnaire analogique*, nd, lists gemstone names, synonyms, varieties, technical terms, and others, but also contains entries that are not defined. Aside from an abundance of interesting woodcuts, this works lacks any real merit, and perhaps the use of a cheap, perishing paper suggests a similar lack of esteem on the part of the publisher.

1802. DUMONTIER, N

L'Art De Travailler | Les | Pierres Précieuses | A L'Usage | De L'Horlogerie Et De L'Optique, | Enseigné En Dix Leçons; | ouvrage entièrement neuf, et le premier qui ait paru sur ce sujet; | Par N.Dumontier, | Professeur | De Mécanique [double rule] | Prix: 5 francs. | [double rule] | Paris, | Chez Dentu, Libraire, Au Palais Royal. | [rule] | 1843

8°: VIII, 54, [1], [1 blankJp; fold engrav pl (24.5 x 21 cm; 9 1/2 x 8 3/8 in) bound-in. Pale greenish-gray print wrap. 21.8 x 13.8 cm(8 5/8 x 5 1/2 in). Uncut. 5 francs. JSL.

Cont: tp; publ data; fold pl; explan of pl figs; pref; 10 chs("lessons"); tab cont. blank p.

How to make bearing jewels for use in timepieces and instruments. The text discusses at length the choosing of gemstones and cautions against use of anything but flawless and inclusion-free material, preferably ruby. Gives orientation instructions, use of tourmaline tongs, shaping & polishing, and preparation of diamond abrasive and polishing powders. There is a part on making lenses. The engraved plate shows equipment and accessories. This may be the earliest formal treatise on this subject.

1803. DUMOULINET, R P Le Cabinet de la Bibliothèque de Sainte-Géneviève; contenant les antiquités de la religion des Chrétiens, des Égyptiens et des Romains; des tombeaux, des poids et des médailles; des monnaies, des pierres antiques gravées et des minéraux; des talismans et des lampes antiques; des animaux les plus rares et les plus singuliers; des coquilles les plus considérables; des fruits étrangers et des plantes les plus exquises. Par le R.P.Dumoulinet (Claude), Chanoine régulier de la Congrégation de France. Paris, 1692. 1 vol in folio. Not seen: from L J J Dubois, *Choix de Pierres Gravées*, 1817, p 24. The latter notes the collection is very rich in abraxas and gnostic gems.

DUNN, EDWARD JOHN(1844-1937)

Brit geol; b Bristol; emigrated Australia 1849; in Geol Survey Victoria to 1869; to S Afr in 1871; return to Victoria to become Dir Geol Survey 1904 to retirement 1912. Obit L J Spencer, *Min Mag*, 25, 165, 1939, p 289-90; *Mining J*, 85, 1939, p 6, portr,

1804. -----1871

Notes | On The | Diamond-Fields. | By | E.J.Dunn. | Cape Town: | Saul Solomon & Co., Printers, St.Ceorge's-Street. | 1871.

Centersewn: 20 p, 6 fold pls(geol sketch maps, sections, hand-col). 23 x 15 cm(9 x 5 7/8 in). BM(NH). Theal, p 93, gives it as "a pamphlet of twenty-five pages and five coloured folding-out charts." JSL.

Cont: tp; print data; pref; text; pls.

A very early attempt to show by crudely hand-colored plates the geology and sections of alluvial diamond deposits along the Vaal River and the pipe deposits of Dutoitspan and Bultfontein although at that time the true nature of the pipe kimberlites was not known. For example, Dunn states "the following Notes are ... the result of three months' experiences... they are very unsatisfactory, as I cannot say what is the matrix of South African diamonds." However, several years later, Dunn wrote in the *Quarterly J Geol Soc* for Feb 1874, p 54-60, 2 fig, about the pipe deposits in which their more or less circular cross-sections had been determined and the rock therein established as the host for diamond crystals.

1805. -----1912 Australites. *Bull Geol Survey Victoria*, Melbourne, 27, 1912, p 1-23, Pls 1-17, map; not seen. GS 13-215.

1806. DUNN, J A The economic geology and mineral resources of Bihar Province. *Mem Geol Soc India*, Delhi, 78, 1941: 8°: [2], iv, 305 p; 2 fig, fold map; reprinted minus the map in 1968. Print card covers, cloth hinge. 21.2 x 13.6 cm(8 3/8 x 5 3/8 in). Cut. Rs 15.00; 25 s, or US $5.40. JSL.

Ch 13, p 91-8, on building materials in which some ornamental stones are briefly described; Ch 35, p 239-51, includes gemstones: quartz varieties, apatite, beryl, corundum, diamond, garnet, kyanite, and tourmaline.

DUNSTAN, BENJAMIN (1865-1933)

Austral geol; b Castlemaine, Vict; lect earth sci & mining in Tech Coll, Sydney 1891-7; to Geol Survey Qnslnd 1908, rising to Govt Geol of Queensland. L J Spencer, *Min Mag*, 24, 1936, p 284.

1807. -----1902

1902 | [rule] | Queensland. | [rule] | The Sapphire Fields Of Anakie. | (Report On, By B.Dunstan, F.G.S., Assistant Government Geologist.) | [With 2 maps and 12 Plates.] |... [Brisbane, George Arthur Vaughan, Government Printer 1902; "Geol Survey Queensland Publ 172"]

Edgestapled: 26 p; 12 fig; 12 pls(5 sketches, 4 in col, each with tissue); 3 col sketch maps; 2 fold col geol maps. All pls bound-in. Gray, print wrap. 34 x 21.2 cm (13 3/8 x 8 3/8 in). Cut. USGS GS 8-546; JSL.

The first geological-mineralogical report on the famous Anakie gem corundum field and almost as interesting for its remarkable color plates as for its text. Describes general geology, details on specially productive areas, advice to prospectors, and much incidental information also useful to the lapidary and gemologist as washing sapphire-bearing gravel, the crystal forms of corundum, zircon and spinel, a note of a diamond discovery at one of the localities, a list of minerals found, historical notes, notes on foreign deposits, and descriptions of the plates. Though crudely executed, the plates depict sapphire crystals in various forms and inclusions in them, and appear to be the first colored illustrations of Anakie sapphires. Among the color plates is one that shows corundum faceted gems, brilliant-cut, in a variety of hues. An extremely scarce report.

1808. -----1913

Queensland... Department Of Mines... Queensland Geological Survey. | Publication No.241. | [rule] | Queensland Mineral Index | And Guide. | With Numerous Diagrams and Tables, and an Atlas of 36 Maps. | By | B.Dunstan, | Government Geologist. | [logo] | Issued under the Direction of | The Hon. J.G.Appel, Minister for Mines. | [double rule] | Brisbane: | By Authority: Anthony James Cumming, Government Printer. | [rule] | 1913.

8°: x, [1], [1 blank], 1014 p; errata f inserted after p viii; front col diagr tip-in + 57 pls(includes several multiples & 37 in col, mostly maps doublepage, also tabs, diagrams, some fold). All pls bound-in after text. Black cloth, blind frames both covers, gold ruled & lett spine with logo. 24.3 x 15.5 cm(9 5/8 x 6 1/8 in). Cut. JSL. GS 14-740.

Cont: front pl; tp; introd; ackn; errata; synopsis; pls list; index (ie, text); pls.

A massive compilation of unique format in that virtually all kinds of data on minerals, deposits, mines, localities, etc in Queensland are assembled alphabetically to form "a guide or ready reference to all that is known concerning the mineral wealth of the State, and to make it as complete as possible, 10,000 mineral references and cross-references have been included, which, with other locality references and cross-references, make up a total of about 18,000 references." Truly an enormous work, the value of which cannot be appreciated until one looks up a specific topic as "Corundum," p 334-7, and finds mineralogical/geological notes, uses, first discovery in the State, fields, statistics, bibliography, and specific localities given, each with their own pertinent references. The list of gemstones, p 430-1, about 75, receive similar treatment in their text places. A very scarce and much sought for work.

DUPARC, CLAUDE LOUIS(1866-1932), WUNDER, M & SABOT, R

C L Duparc Swiss mineralogist/geol; b Carouge nr Geneva; stud Geneva & Paris; taught mineralogy U Geneva 1888, then prof min, geol, paleont; publ ca 355 papers; major work in Pt deposits Urals, publ 1920. Obit M Gysin, *Schweiz Min Petr Mitt*, 13, 1933, p 1-16; L J Spencer, *Min Mag*, 23, 141, 1933, p 347-8; E Joukowsky, *CR Soc Phys Geneve*, 1, 1933, p 9-13.

1809. -----1910 Les minéraux des pegmatites des environs d'Antsirabé a Madagascar. *Mémoires de la Societé de Physique et d'Histoire Naturelle de Genève*, 36, fasc 3, 1910, p 283-410, 51 fig, 40 blue-tinted photos on 20 bound-in & tipped-in pls. Also sep: 4°: with titleleaf; 30.7 x 22.4 cm(12 1/8 x 8 7/8 in). Cut. GS 11-137; JSL. The title reads;

Les Minéraux Des Pegmatites | Des Environs | D'Antsirabé A Madagascar | Par | Louis Duparc | Professeur à l'Université de Genève. | Et | M.Wunder [vertical rule] R.Sabot | Assistants au labratoire de minéralogie de l'Université. | [rule] | Avec 51 figures et 40 clichés dans le texte. | [orn rule] | Genève | Imprimerie Albert Kundig | [rule] | 1910.

An extremely important study of the granitic pegmatite minerals, many being gemstones, occurring in deposits of the Antsirabe region. Describes regional geology and pegmatites in general, then furnishes details on geology, mineralogy, etc of specific pegmatite bodies which have been mined for gemstones. This is followed by descriptions of minerals with emphasis on the gem species, especially aquamarine and morganite, but also on colored tourmaline, spodumene, spessartine garnet, and others. The photographs are views of deforested terrain and opencast workings. Text figures depict crystals and geological structures.

1810. -----1910 Note sur le béryl de divers gisements situés dans les environs d'Antsirabe. "Contribution à la connaissance des minéraux des pegmatites de Madagascar." *Bull Soc Franç Min Crist*, 33, 1910, p 53-67, 2 fig. JSL. Important; describes beryl-yielding granitic pegmatites of Tsilaisina, Maharitra, Tsaravovona, Antaboko, Tetehina, Ambatolampy, and Tongafeno, and the blue and rose varieties, with crystallographic notes, habits, color, sizes, specific gravities, and optical properties(some determined on cut gems). See also a "Note complementaire sur le béryl de Madagascar," ibid, 34, 1912, p 239-42.

1811. DU PLESSIS, J H

Diamonds are Dangerous | by | Captain J.H. du Plessis | The Adventures of an Agent of the | International Diamond Security Organisation | [logo] | Cassell · London [1960]

8°: viii, [2], 213, [1]p; 29 photos on 8 glossy bound-in f. Bright blue clothlike paper over bds, silver rules & lett spine.

Col dj, resume, advert. 20 x 13.4 cm(7 7/8 x 5 1/4 in). Cut. JSL.

Cont: 1/2tp; tp; publ data; pref; ill list; quot; map; 6 chs.

Adventures of an undercover agent; mission - to discover workings & personnel of diamond-smuggling rings in Africa. In first person, conversational style, often in romantic and even sensational prose, but nevertheless imparting considerable useful information on diamond mining & marketing, along with other aspects of the industry. Reprinted in same year.

1812. -----1961, New York

Diamonds | Are | Dangerous | The Adventures | Of An Agent Of The International | Diamond Security Organization | Captain J.H. du Plessis | The John Day Company, New York [1961]

16°: 250, [6 blank]p; sketch map, no photos. Blue cloth, gold lett & ruled spine; col dj, resume, advert. 19.8 x 13.5 cm(7 3/4 x 5 1/4 in). Cut. $3.95. LC 61-8275. JSL.

Cont: 1/2 tp; tp; publ data; pref; quot; sk map; text to; text; 3 blank f. Text rewritten to "Americanize" word spellings.

1813. -----1961, Paris

Captain J.H. Du Plessis | détective attaché à la Police sud-africaine et à | l'Organisation de sécurité internationale des diamants | Les Diamants | Sont | Dangereux | Traduit de l'anglais par Jean-Jacques Villard | Buchet/Chastel | Paris [1961]

8°: 275, [2], [3 blank]p, p [1-2] also blank; sk map, 5 photos on 2 glossy f bound-in. Black glossy wrap, col title on cover & spine; back cover resume. 19.2 x 14.2 cm(7 5/8 x 5 1/2 in). Uncut. 14,70 NF + t.1. Cheap, perishing paper. JSL.

Cont: blank f; 1/2tp; tp; publ data; pref; quotes; sk map; text; colophon; 3 blank p.

1814. -----1963, München Hartes Spiel um heisse Steine. München, 1963; not seen.

1815. DURAND, PAUL

Judging Gems | by | Paul Durand | (Illustrations by the Author) | [marquise cut gem in black panel] | [orn rule] | Concise Facts for Gem Collectors | [orn rule] | Technicraft Publishers | Copyright 1952 [Hollywood, California]

Centerstapled: [2 blank], [1], [1 blank], [1], [1 blank], 58, [4 blank] p; 8 fig. Mottled green wrap, title & gem on cover. 22.2 x 14.5 cm(8 3/4 x 5 3/4 in). Cut. $1.00. JSL.

Simple procedure for exmaining gems to correctly judge proportions, faceting accuracy, flaws, identify fakes & imitations, etc. Also on information pricing, common fallacies,remarkable optical properties, and the gem families. Not free of error. Reprinted, same format, but paged to 55 only.

DURHAM, J W, see HURD, P D, et al

1816. DUSTIN, FRED The gems of Isle Royale, Michigan. *Papers of the Michigan Academy of Science, Arts and Letters*, Ann Arbor, 16, 1932, p 383-98. Also issued sep. Based on visits in 1929-30; first adequate description; summarizes earlier references, discusses geology & mineralogy, then gives details on the specific species, namely, chlorastrolite(pumpellyite), lintonite, thomsonite, mesolite, carnelian, agate, prehnite, amethyst, rose quartz, chalcedony, jasper, opal, datolite, epidote, wollastonite, and more, which like others mentioned above are really not suited for gemstones.

DUTENS, LOUIS(1730-1812)

Fr archeol, writer; b Tours; Fr Huguenot, emigrated in youth to Engl on religious grounds; largely self-taught, becoming proficient in foreign languages, prolific writer translations, and hist, archeol & political treatises; England's chargé--d'affaires at Turin; historiographer to King of Engl; Fellow, Roy Soc. DNB; *Biogr Univ*, 12, p 395-99; Pogg I, 632-3.

1817. -----1776 Des pierres précieuses et des pierres fines; avec le moyens de les connoître et de les evaluer. Paris, 1776, 12°, 129 p; said to be only about 3 x 5 inches(7.7 x 12.7 cm) in size. Not seen. Apparently very rare.

1818. -----1777, London Same title. Londres: P.Elmsley, 1777. xv, 124, [4]p. Not seen. Size said to be 4 1/2 x 6 1/2 inches(11.5 x 16.5 cm). C W King, *Natural History of Precious Stones*, 1867, p 25, states of Dutens book "is little better than an abridgment of De Boot's chapters upon the same heads," and without crediting De Boodt as a source.

1819. -----1778, Paris

Des | Pierres Précieuses | Et Des | Pierres Fines | avec les moyens de les connoître | & de les evaluer | par M.L.Dutens | de la Soc.R.de Londre & de l'Acad. Des Insc. | & B.L. de Paris. | [rule] | In arctum coacta rerum Naturae majestas. | Plin. 1.37. | [woodcut orn] | [orn rule] | A Paris | & se trouve à Bâle | chez Jean Schweighauser. | [rule] | 1778.

8°: 128 p; A-H^8; ch orns; orn rules. 15 x 9.6 cm(5 7/8 x 3 3/4 in). Cut. Another copy: 10 cm(3 7/8 in) wide. USGS Kunz Coll, GS 34-409; JSL.

Cont: tp; pref; text in 2 parts(14 ch each); tab cont.

In his preface, Dutens discusses the merits of previous works on gemstones and explains why he decided to write this one. A connoisseur of arts and of gems, he traveled widely throughout Europe and spent much time visiting collections and discussing their contents with their owners. One would therefore expect that the book was based on his experiences but it seems that it is no more than re-working of information available in earlier books treating gemstones as remarked by King above, who believes Dutens derived most of his information from De Boodt and De Laet. In the first part Dutens explains his system of classification whereby the finest and most durable of gemstones are dubbed "oriental" while those of lesser quality and hardness receive the title of "occidental," thus perpetuating in a highly popular and widely distributed work these unfortunate and misleading terms that persisted in use well into the last century. Some generalities on gemstones also appear here as curious lore, origin of gemstones, and other topics, followed by separate chapters on the major gemstones beginning with diamond. The latter chapter records recent experiments in France and elsewhere on the combustibility of diamond, one such experiment he personally observed. The second part describes lesser gemstones, mainly massive types used mostly in cabochons or in the manufacture of small to large ornamental articles or decorations. Despite King's criticisms, Dutens' work did provide useful accurate information and received acclaim and wide distribution.

1820. -----1779. Nürnberg

L.Dutens, | Mitgliede der königlichen Societät zu London | und der Akademie der Inschriften und schönen | Wissenschaften zu Paris, | Abhandlung | von den | Edelsteinen | vom | ersten und zweyten Rang, | und von den Mitteln | sie zu kennen und zu schatzen; | [rule] | Aus dem Französischen übersetzt. | [rule] | In arctum coacta rerum Naturae maiestas. | Plin. hist. nat. L.XXXVII. | [orn rule] Nürnherg, | bey Wolfgang Schwarzkopf, 1779.

8°: 126, [2]p; A-H^{8}; ch orns; orn rules. 17.5 x 10.5 cm(6 7/8 x 4 1/8 in). Cropped. USGS Kunz Coll, CS 34-408. JSL.

Cont: tp; pref; text; tabs of diamond values; tab cont.

Straightforward translation; translator not identified.

1821. -----1780, Venice edition(?) Vague reference to "Delle pietre preziose e delle pietre fine," Venezia, 1780. Not seen.

1822. -----1783, 2nd edit, Florence

Des | Pierres Précieuses | Et Des | Pierres Fines, | Avec les moyens de les connoître & de | les évaluer. | Par M.Dutens, | De la Soc.^{e} R.de Londres, & de l'Acad.des Insc.^{s} | Nouvelle Édition | Revue & augmentée par l'Auteur. | [rule] | In arctum coacta rerum Naturae majestas. | Plin. 1.37. | [rule] | [woodcut orn] | À Florence | Chez Joseph Molini, Libraire, | Rue des Arquebusiers. [nd, 1783]

8°: 151, [3], [2 blank]p; a-i^{8}, k^{6}; ch orns. 19 x 13 cm(7 1/2 x 5 in. Uncut. LC 8-30347; USGS Kunz Coll, GS 34-409; BM(NH) Cat; JSL.

Cont: tp; dedic; pref; pref new edit; text;burning diamond; tab of diamond values; description of an engrav gem; tab cont; other Dutens works; blank f.

Essentially the same as the first edition with small additions here and there and emendations. The observations of diamond combustibility experiments were lifted from the former text and made into an appendix, just ahead of the tables of diamond values; next is the description of an engraved gem of no particular merit, and, curiously, a discussion of platonic love.

1823. -----1784, in collected work Oeuvres melées de m. L.Dutens... Á Genève, Chez Bonnant, 1784, viii, 397, [l]p, tabs, 1 fold. 20 1/2 cm. Contents: Des pierres précieuses... La logique... Lettres sur divers sujets... Poésies. Not seen; from USGS Kunz Coll, GS 34-299.

1824. -----1797, in coll'd work, London

Oeuvres Mêlées | De | M.L.Dutens, | Historiographe Du Roi De La Grande Bretagne, | De La Société Royale De Londres; De L'Académie Des Inscriptions | Et Belles Lettres De Paris; Et De L'Académie Royale | Des Sciences De Turin. | [double rule] | Prèmiere [Seconde] Partie. | [double rule] | A Londres: | De L'Imprimerie De W. & C.Spilsbury, Snow-Hill. | Se Vend Chez P.Elmsley, Strand; T.Payne, Mews Gate; J.Edwards, Pall-Mall; | J.Robson, New Bond-Street; Et J. De Boffe, Gerard-Street, Soho. | Double rule | MDCCXCVII. [1797]

The treatise on gems, simply entitled "Des | Pierres Précieuses, Et Des | Pierres Fines, | Avec Les Moyens De Les Connoître Et De Les Évaluer, " commences the second part and is paged xvi, [1], 2-74; the edition copied is that of Florence, 1783.

DU TOIT, ALEXANDER LOGIE(1878-1948)

S African mining eng, geol; b Newlands, Cape of Good Hope Colony; min eng dipl Roy Tech Coll, Glasgow 1899; stud geol Roy Coll Sci London, 1900-1901; apptd asst geologist, Geol Commission Cape of Good Hope in 1903; chief geol, Dept Irrigation, Geol Survey S Africa 1920; resigned to act as consultant to De Beers in 1927; Fellow Roy Soc London; recipient Murchison Medal. Biogr by T W Gevers, *Geol Soc S Afr, annex to Vol 52*, 1950(?),

1825. -----1907 Geological survey of the eastern portion of Griqualand West. *Cape of Good Hope, Dept Agric, 11th Ann Rpt of the Geol Comm*, 1906, Cape Town, 1907, p 87-176, 13 fig(maps). JSL. In three sections: I general geology, II the diamondiferous and allied pipes and fissures, p 135-70, figs 9-13, and III the diamondiferous gravels, p 171-6. The second section treats Kimberley, De Beers, Bultfontein, Dutoitspan, and Wesselton mines, with maps, and important for showing developments at an early stage of their career.

1826. -----1908 The kimberlite and allied pipes and fissures in Prieska, Britstown, Victoria West and Carnarvon. Ibid, *13th Ann Rpt*, 1908, p 111-27, 3 fig, Cape Town, 1909; not seen.

1827. -----1939

The Geology Of | South Africa | By | Alex. L.Du Toit | D.Sc., F.G.S. | With 41 Plates, 68 Text Figures, And | A Geological Map | Second Edition | Revised And Enlarged | Oliver And Boyd | Edinburgh: Tweeddale Court | London: 98 Great Russell Street, W.C. | 1939

8°: xii, 539, [1], [3 advert]p. Red cloth, gilt; dj. 22.2 x 14.4 cm (8 3/4 x 5 5/8 in). Cut. 28/-net. JSL. GS 40-48.

Chapter 16, p 378-94, 3 plates, 3 figures, describes the volcanic pipes and fissures in which diamonds occur, giving distribution, and the kimberlite, mineralogy, typical forms of pipes and dimensions, and remarks on the genesis of diamond. Chapter 20, p 462-7, further treats diamond and gemstones. See also 3rd edit, LC 54-37740.

1828. -----1951 The diamondiferous gravels of Lichtenburg. *Union of South Afr, Geol Survey Mem* 44, Pretoria, 1951, wrap, [4], 58 p; front portr pl of Du Toit + 9 photo pls on paged glossy f bound-in; 8 fig(l fold map); 5 tabs (1 fold). 24.3 x 15.4 cm(9 1/2 x 6 in). Cut. 5s. JSL. GS 52-285. Described geologically, mineralogically,and economically: specific mines, character of diamonds, methods of mining & recovery, production statistics. Plates show mine views; the map locates the grounds. Biblio p 34-5, 12 entries.

DU TOIT, A L, see CROCKER, J J & MCCRAE, J

1829. DU TOIT, A L, ROGERS, A W & WAGNER, PERCY A

Kimberley-Johannesburg. | By | A.L.Du Toit, D.Sc., A.W.Rogers, Sc.D., F.R.S. | And | Percy A.Wagner, D.Eng., D.Sc. | [congress seal] | 101007 | [Printer's label] [Wrapper title]

At head of title:"International Geological Congress | [rule] | Guide Book | XV Session | South Africa 1929 | [rule] Excursion A.6 [underlined]

Centerstapled: 34, [2 blank]p; 3 fold maps, sect; 5 fig. Pale tan wrap. 21.2 x 13.8 cm(8 3/8 x 5 3/8 in). Cut. JSL.

"The Kimberley Diamond Mines" by Du Toit, p 1-8, remarks on local geology to p 14; "Johannesburg," by Rogers, p 15-29,

with bibliography, and "The Lichtenburg Diamond Fields" by Wagner, p 30-4.

1830. DU TOIT, G J The Williamson diamond mine. *Mine & Quarry Engineering*, London, 25, 3, 1959, p 98-103; no 4, 146-53; no 5, 194-200, figs, photos. Not seen. *Min Abstr*, 16, 2, 1963, p 159.

1831. DU VAL, CHARLES With a show through Southern Africa, and personal reminiscences of the Transvaal War. London, Tinsley, 1882, 2 vol. Chs vi-viii in Vol 1 deal with the diamond fields. Not seen: from Southey, no 25.

DUVAL, RUBENS, see BERTHELOT, P E M

1832. DVORSKY, FR Die am Iglavaflusse abgesetzten Moldavit-Quarzgerölle. (Ein Beitrag zur Bouteillenstein-Frage.) *Sechstes Programm des k.k.Staats- Untergymnasiums zu Trebitsch*, veröffentlicht am Schlusse des Schuljahres 1882-3, Trebitsch, 1883. Wrap, printed, p 1-17, chemical tab. Describes pebbles of moldavite and quartz in the alluvia of the Igla River in Czechoslovakia. The table gives analyses of moldavites according to various authorities(8).

DYER, H B, see INDUSTRIAL DIAMOND ASSOCIATION OF AMERICA, 1968

1833. DYER, H B & MATTHEWS, I G The fluorescence of diamond. *Proc Roy Soc, London*, vol 243, A, 1958, p 320-35, 7 fig. Not seen. *Min Abstr* 14, 4, 1959, 265.

DYKES, R, see GOODCHILD, W

1834. DYUKALOV, N A Mirovaya Torgovlya Dragotsennymi | Poludragotsennymi Kamnyami [World trade in precious and semi-precious stones]. Pod redaktsiya i s predislove Akademikh A.E.Fersman [Edited, and with a foreword by Academician A E Fersman]. Moskva-Leningrad, 1932. 167 p. Not seen.

1835. DZHANASHVILY, MOSÉ Istoria dragotsennykh kamnei [History of precious stones]. *Sbornik Materialov Dlya Opisaniya Miestnostei i Plemen Kavkaza*, Tiflis, vyp 24, 1898, p 1-72. Another ref gives p 1-54; not seen. Blake, in his *Epiphanius*, 1934, p LVI, states "a portion of our text [the Georgian MS of Epiphanius' *De Gemmis*] was printed... by a curator of the Ecclesiastical Museum in Tiflis. He published in Georgian with a Russian translation the introductory letter of Epiphanius to Diodorus and the descriptions of the stones, and added the end of the tractate as a specimen of the remainder."

1836. E, M Life on the diamond fields, extracts from the private journal of M.E. London: Wertheimer, Lea [printers]. 1875. 54 p. Not seen: from Southey, no 26.

1837. EADY, W T

I.D.B. | Or The | Adventures Of Solomon Davis | On The | Diamond Fields And Elsewhere | By W.T.E. | London: Chapman And Hall | Limited | 1887

8°: [2 blank] + vi, 344 p. Pale brown cloth, "I.D.B." and calipers holding a cut diamond, with diamond crystals, on cover, heightened with tan color; gold lett spine; 2 diagonal rules & logo back cover. Dull green, dull finish endp. 19.1 x 12.6 cm(7 1/2 x 5 in). Te uncut; fe partly so. JSL.

Cont: blank f; 1/2tp; tp; publ data; tab cont; 21 chs.

Fascinating, eminently readable, with following comment by Mendelssohn particularly appropriate: "the writer evidently possessed an intimate knowledge of the seamy side of life on the diamond fields [of South Africa] in 1880. His account of the flotation of a swindling diamond company in the "1881 boom" is founded on fact, and is a good illustration of the malpractices pursued at that period. Many people who lived in Griqualand West about this time will recognize the detective "Phangsky," while the references to Woodward's Mining Board Bar, and the "Gordon" Club, will be well understood by the survivors of those halcyon days." The title initials refer to "Illicit Diamond Buying." A scarce work.

1838. EARDLEY-WILMOT, V L Abrasives. Products of Canada. Technology and Application. Part II. Corundum and Diamond. *Canada Department of Mines, Mines Branch, No 675*, Ottawa, 1927. 8°: v, 51, p, front pl + 4 others, 6 fig, 4 tab. Brown cloth, gilt. 24.7 x 16.6 cm(9 3/4 x 6 1/2 in). Cut. Also in stout gray paper wrap. GS 27-251, rev. JSL. Brief remarks on history of corundum, properties, uses, occurrences, etc, in Canada and elsewhere, with details on Canadian deposits and some information on industrial diamond. Also issued in French version, "Les Abrasifs...,"Partie I.-IV., Ottawa, 1930-4. JSL.

EARL MARSHAL OF ENGLAND, see DIAMOND MINE

1839. EASBY, ELIZABETH KENNEDY The Squier jades from Toniná, Chiapas. In: *Essays in Pre-Colombian Art and Archaeology* by S K Lothrop and others, 1961, p 60-80, which see. JSL.

1840. -----1968

Pre-Columbian Jade | from Costa Rica | by | Elizabeth Kennedy Easby | with photographs by Lee Boltin | [logo] | André Emmerich Inc. | 41 East 57th Street, New York [1968]

8°: 103, [1]p; doublep sketch map inserted ahead and after text; front col pl; 68 fig(includ 35 col photos & 35 b&w photos). Stiff, plasticized white wrap, large col pl on cover with lett; spine lett; back cover logo. 23.6 x 15.5 cm(9 1/4 x 6 1/8 in). Cut. LC 68-55753. $10.00. JSL.

Cont: map; 1/2tp; pl; tp; publ data; tab cont; fwd; introd; text; summary; notes; biblio(p 102-3, 20 entries); publ data; map.

An excellent study of the jades from a region whose prehistoric record is "quite blank." There is a very good study of local jade materials, mainly emphasizing the texture, colors, and the exceptionally fine grain coupled with a remarkable degree of translucency; some of these features are apparent in the excellent photographs. The source of the jadeite is unknown, and in view of the often beautiful colors, sometimes approaching "imperial" green color in some pieces, it is apparent that it comes from a deposit or deposits that are different from those that supplied Mexican lapidaries. Other materials worked by early lapidaries include chalcedony, serpentine, and a soft stone vaguely defined as tuff or argillite. The text also discusses lapidary techniques and is based on evidences in the pieces themselves or statements of other authorities. Much of the text discusses type-objects, as axe-gods, figure pendants, beak birds, animals, etc, and gives a chronology. A handsome work, manufactured in soft cover only.

One of the extremely few works to devote itself to Costa Rican jades.

1840A. EASBY, ELIZABETH K & DUDLEY T, Jr
Apuntes sobre la técnica de taller jade en Mesoamerica. Universidad de Buenos Aires Facultad de Arquitectura y Urbanismo, *Anales del Instituto de Arte Americano e Investigaciones Esteticas*, 6, 1953, p 9-38, 4 pls, 13 figs, 54 notes. Studied numerous smaller carvings in jade to establish lapidary methods as shown in the pen & ink drawings. Discusses jades of the Mayan culture and those of Oaxaca, Valley of Mexico, and Olmec objects of the La Venta culture. Excellent drawings; photo plates mainly of jade carvings

EASH, DIANNE M , see INTERNATIONAL GEMOLOGICAL SYMPOSIUM, 1982

1841. EASTHAM, BARRY C
Chinese | Art Ivory | By | Barry C.Eastham | 1940 | John E.Paradissis | Tientsin, China

8°: [6], 86 p; 32 photo pls on 18 glossy f bound-in at end of text. Green cloth, blind frame both covers; gold lett spine; dj with Chinese painting on front; flap resume. 24 x 18.5 cm(9 1/2 x 6 1/2 in). C $50.00; US $7.50. JSL.

Cont: 1/2tp; laud of author; tp; publ data; tab cont; dynasties list; 11 chs; index; pls section(includes 3 p unnumb text).

Origins of ivory carving in China, sources of ivory and types, styles of carving and distinctive features of Chinese work and employment of symbolism, religious motifs, etc, dating carvings, criticism of Chinese work as compared to Western ivory carving. Sharp photos depict a wide variety of objects. Scarce.

1842. EASTON, NICOLAAS WING(1859-1937) Diamanten In Landak. Hun Voorkomen En Ontginbaarheid Door N.Wing Easton, Ingenieur Der 1ste Klasse Bij Het Mijnwezen. Batavia Landsdrukkerij 1895. "Extra-Bijvoegsel *Der Javasche Courant* 1895 N° 19." 8°: 27, [1 blank] p, fold geol sketch map tip-in at end of text. Pale gray print wrap. 25 x 17 cm(9 7/8 x 6 3/4 in). Text in Dutch(v) & English(r): describes diamond occurrences in Landak, Borneo, particularly in alluvials of Landak River and tributaries; based on reports of native miners and on author's samplings.

1843.-----1921
The Billitonites | (An Attempt To Unravel The Tectite Puzzle) | By | Ir. N.Wing Easton. | [rule] | Verhandelingen der Koninklijke Akademie van Wetenschappen te Amsterdam. |(Tweede Sectie). | Deel XXII. N°2. | (With 2 Plates). | [double rule] | Uitgave Van De | Koninklijke Akademie Van Wetenschappen, | Amsterdam 1921.

Centerstapled: 32 p; 2 heliotype photos of tektites. 28.1 x 18.1 cm (10 1/4 x 7 1/8 in). Cut. John Crerar Libr, A 32-1681 rev. JSL.

Describes features & properties of various tektite types, compares them to the billitonites which are found on the Island of Billiton in the Malay Archipelago; discusses morphology of billitonites, then gives the author's hypothesis that they are terrestrial glasses formed originally from secreted gels. The excellent plates depict 39 specimens; 20 refs.

EBERHARD, JOHANN PETER(1727-1779)
Ger physician & polymath; b Altona; expert in math, biol, physics; wrote numerous papers and several large works in these fields; prof U Halle. *Biogr Univ*, 13, p 442.

1844. -----1751
Johann Peter Eberhards | der Arzneigelahrtheit Doctors | Abhandlung | von dem | Ursprung | der | Perle | Worin | deren Zeugung, Wachsthum | und Beschaffenheit erklärt, | Und | eine Nachricht | Von verschiedenen | Perlenfischereien | gegeben wird. | [rule] | Halle, | Zu finden in der Rengerischen Buchhandlung | 1751.

8°: [1 blank], [plate], [13], [1 blank], 172, [4], [2 blank]p.; front engrav pl conjugate with title f; ch orns, inits. 19.2 x 12.5 cm(7 1/2 x 4 7/8 in). Uncut. USGS Kunz Coll, GS 34-324; Agassiz II, 315.

Cont: blank p; pl; tp; dedic; pref; blank p; text; tab cont; blank f.

A very early work on pearls and their origin, especially treating freshwater mussels and their pearls. Reviews previous writings on the problem of pearl genesis, describes anatomy and natural history of the mussel, pearl fisheries around the world, improvement & conservation of mussel resources, speculations on pearl origin, differences among the pearls from different mollusk species, uses of pearls, commerce, and imitations. On the whole a surprisingly comprehensive and informative work. Eberhard was of the opinion that pearls grew around infertile eggs of the host. The frontispiece shows a variety of implements used for the opening of shells and extraction of pearls. Rare.

1845. EBERL, ROBERT
Smaragde - | Segen | Und | Fluch | Von Robert Eberl [Vienna: privately publ, 1972]

Cementb: 105, [1]p; 42 photos; text sketch; col sketch of beryl crystals. Stiff white wrap, green vert band & black lett. 20.9 x 14.8 cm (8 1/4 x 5 7/8 in). Cut. Sold by author, ca USA $6.00. JSL.

Cont: tp; publ data; fwd; text; print data.

Despite the general title, "Emerald - blessing and curse," almost all of the book is about the celebrated emerald mine in the Habachtal of Austria. Topics include early history, early mentions in the literature of working the mine, much on its career during the 19th century, how the mine is reached, fabulous stories about the deposit and its emeralds, and many more odd bits of information. The author established an Emerald Mine Museum in the Alpenrose Inn in the valley in 1966 but saw the museum and much of the inn destroyed by a rock-filled avalanche in 1970. Informally written, highly interesting, and filled with authentic information on the mine and its owners and miners, all of real historical value. Rev H Pech, *Der Aufschluss*, 23, 7/8, 1972, p 274, "one of best experts on the emerald occurrence in Habachtal."

EBERMEYER, JOHANN MARTIN von (1664-1743)
Ebermeyer was a Nürnberg tradesman; the preface to the work below and commentaries were written by Johann Jakob Baier(1677-1735), physician, naturalist, prof med in Altdorf, Switz, best known for his *Oryctographia Norica* of 1730; DSB 1, 392-3; *Biogr Univ*, 3, 222-3.

1846. -----1720
Gemmarvm | Affabre Scvlptarvm | Thesaurvs | Qvem | Svis Svmptibvs Havd Exigvis | Nec Parvo Stvdio | Collegit | Io.

Mart. Ab Ebermeyer | Norimbergensis. | [rule] | Digessit Et Recensvit | Io. Iacobvs Baiervs | Philos. Et Med. Doctor | Hvivsqve In Acad. Altorf. Professor | Primarivs. | [rule] | A.R.S. CIↃ IↃCCXX. | [rule] | Prostant Exemplaria Norimbergae | In Aedibvs Ebermeyerianis. [Nürnberg, 1720; title red & bl, in compartmented single-rule frame]

2°: [8], 24p + [22]f paged 25-46 on rectos only, versos blank + [2]f;)(^{4}, A-S^2; engrav front portr of Ebermeyer; double-leaf engrav view of his gem storage cabinet; 8 engrav fullp pls of gems(as many as 25/pl); 25 text engravs of gems; engrav headpc; engrav woodcut headpc & woodcut inits. 40 x 25 cm(15 3/4 x 9 7/8 in). Cut. JSL.

Cont: tp; dedic; pref by Baier; text to first 8 pls(to p 24); 22 leaves of gems with explan; index & emend & addenda.

The valuable descriptive catalog of the engraved gem collection formed by Ebermeyer, about whom I have not been able to learn anything important. The large, impressive portrait plate, by C D Heumann of Nürnberg, shows E and two medallions, with a laudatory plaque in addition to the central oval frame, with name and birth date; E is shown as a bust on a pedestal. The dedication is to Ludwig Rudolph, Duke of Brunswick & Luneberg. Following the preface is the large folding plate of an elaborately carved cabinet, then the plates of engraved gems inserted at appropriate points in the text. Of more interest are the engraved plates which appear singly or in pairs on the versos of 22 leaves and paged only on the printed sides. These are exquisitely engraved but the richness of detail suggests that much of it was supplied by artist & engraver to make more impressive what may have been a rather plain gem. Above each of the enlarged depictions appears a plain, or sometimes elaborately jeweled mount in which the gem was set; these appear to be actual size and in the center give the name of gem material.

Strongly condemned by Mariette, *Traité des pierres gravées*, 1, p 310- 2, who claimed the collection was formed from gems newly engraved in Germany after known prints, designs made specially for his cabinet, designs after medals, and a large number of gems imitating authentic antique gems. He ridicules Baier's statement that these gems compare favorably with the antiques. Vinet follows Mariette by scathingly denouncing the work (nr 1614) as "without value" and a "veritable imposture." C W King, *Antique Gems and Rings*, 1, 1872, p 463-4, notes that while the text was "unmercifully censured by Mariette, who attributes the originals, one and all, to Dorsch himself," goes on to say that "many of the plates are not without merit, and now have a special interest from exhibiting the elegant Renaissance settings in which most of the larger pieces were then mounted." Furtwängler, *Die antiken Gemmen*, 3, p 409, states that the gems were literally mass produced to order by the Nürnberg gemcutter Christoph Dorsch(1676-1732) and that the collection was later sold to the King of Portugal. Cicognara, 2741; Zazoff, *Gemmensammler*, 106-110 passim.

1847. -----1721, edit by Reusch

Capita | Deorvm | Et | Illvstrivm | Hominvm | Pacis Belliqve Artibvs Clarissimorvm | Nec Non | Hieroglyphica, Abraxa | Et Amvleta | Qvaedam, | In | Gemmis | Antiqva Partim, Partim Recenti Manv, | Affabre Incisa, | Qvae Magno Stvdio Collegit | Io. Martinvs Ab Ebermeyer, | Norimbergensis. | Enarravit Observationibvsqve Historicis | Illustravit | Erhardvs Revsch. | [double rule] | Anno cIↃ IↃ cc XXI. | [double rule] | Prostant Exemplaria | Francofvrti Et Lipsiae. [1721, Frankfurt & Leipzig, priv publ; title in red & black]

2°: [8], 226, [22]p;)(^{4}, A-Hh^4; 17 engrav pls;1 engrav text fig; engrav headpc & init. 40 x 25 cm(15 3/4 x 9 7/8 in). Cut. JSL.

Cont: tp; pref; tab cont; text & pls; addits & emends; index.

The engraved gems, 450 in all, are portrait heads of gods, rulers, philosophers, and other important persons, along with miscellaneous subjects and Egyptian-style gems and abraxoid gems. Many gems, drawn in outline, appear on each plate. Text by Erhard Reusch; plates engraved by Dorsch. As with others in this series, bound up together.

1848 -----1722

Imperatorvm | A | Ivlio Caesare | Ad | Carolvm VI | P.F.AVG. | In | Gemmis | Antiqva Partim, Partim Recenti Manv Affabre | Incisorvm | Series. | [double rule] | Excvsa A. cIↃ IↃ ccxxii. [No place, 1722, priv publ]

2°: [4]p + 7 engrav pls of gems. Same size as above. JSL.

Catalog of gems in Ebermeyer's collection depicting rulers from Julius Caesar to Charles VI. The text contains a preface by E and a chronological listing of the plates, the latter often very elaborate, by Dorsch.

1849. - Not used

1850.-----1722

Effigies | Regvm | Franciae | A | Pharamvndo | Vsqve Ad | Lvdovicvm XV, | In | Gemmis | Ad Optimorvm Monvmentorvm Fidem | Incisae. | [rule] | Excvdebantvr Anno cIↃ IↃ ccxxii. [No place, 1722; priv publ]

2°: [4]p + 4 engrav Pls, the first a storage cabinet, others gems. Same page size. JSL.

Depicts Kings of France as shown on 65 engraved gems; several pls signed by Dorsch.

1851.-----1722

Icones | Dvcvm | Venetorvm | Qvotqvot | Ab Origine | Vrbis Et Reipvblicae Venetae | Ad | Haec Vsqve Tempora | Flovervnt, | In | Gemmis | Affabre Caelatae. | [rule] | Excvdebantvr Anno cIↃ IↃ ccxxii. [1722, no place; priv publ]

2°: [4]p + 5 engrav pls, the first of a storage cabinet as before.

As in the preceding, the storage cabinet is followed by plates on which appear engraved gem portraits of 111 dukes or doges of Venice.

1852. EBNER, CARL, editor

Edelsteine | Wie sie beschaffen sind und | wie wir sie einkaufen sollen | verlag der Schweizer Warenkunde Erlenbach-Zürich [1936; wrap title only]

4°: 38, [2 blanklp; 4 col pls, tissues; line drawings & b&w photos on 4 glossy f tip-ins. Dull orange print wrap; also in red cloth, blind cover frames, and with "Edelsteine" in gold on cover, pale gray endp. 28.9 x 20.5 cm(11 3/8 x 8 in). Cut. SFr 4.50. JSL.

Cont: cover tp;fwd; tab cont & press data; text; blank f.

Principal facts about gemstones from the 3rd issue of *Schweizer Warenkunde*, and meant for the public, the basic data from Bauer's *Edelsteinkunde*, 1896. General facts, occurrences,

properties, cutting styles, imitations and synthetics, nomenclature, brief descriptions of gemstones. The color plates are by Walter Wild of Idar-Oberstein and first appeared in W F Eppler's *Edel- und Schmucksteine*, 1934. The plain plates depict cutting styles and famous diamonds.

ECHELLENSIS, ABRAHAM, see HABDARRAHMAN

1853. ECKENSTEIN, L European amulets, by L Eckenstein. Paper read before the International Congress of Religions, Oxford, 1908. [wrap title only.] Centersewn: 19, [1]p; pale gray paper wrap. 21.6 x 14 cm(8 1/2 x 5 1/2 in). Cut. JSL. Interesting, informative lecture: use of amulets, with types ranging from plants, berries and seeds, to minerals as bloodstone, quartz, chalcedony, jades, serpentine, olivine, certain nodular/concretionary formations as toadstone, cockstone, gizzard stone and eagle stone, also coral and amber.

1854. ECKERMANN, NICOLAUS

Electra | Oder | Die Entstehung Des Bernsteins | [rule] | Ein Epischer Gesang | von | Dr.Nicolaus Eckermann | [taper rule] | Halle | Bei Hemmerde Und Schwetschke | 1807

2°: bound in 4's: [5], [1 blank], 15, [1 blank]p. 26.2 x 21.3 cm (10 3/8 x 8 3/8 in). Uncut. BM(NH) copy seen; also in USGS Kunz Coll, GS 34-978.

An epic poem on the mythological origin of amber, and signed "Oliva im Sommer 1806."

ECKHEL, or EKHEL, JOSEPH HILARIUS von (1737-1798)

Jesuit priest, numismatist, antiquary; b Enzersfeld, Austria; to Italy where he intensively studied coins & medals; apptd dir Imperial Cabinet in Vienna 1774 & prof antiquities; wrote major works on coins, esp an 8-vol treatise 1792-8. *Biogr Univ* 12, 463-7.

1855. -----1781

Mvsei Franciani | Descriptio | [orn rule] | Pars Prior | Comprehendens | Nvmismata Et Gemmas | [rule] | Lipsiae | Litteris Vdalr.Christiani Saalbachii | CIO IOCC LXXXI [Leipzig, 1781]

8°: XXIV, 432 p; $*^8$, $**^4$, A-Dd^8. 19.7 x 11.8 cm(7 3/4 x 4 5/8 in). Cropped. USGS Kunz Coll, GS 33-273.

Cont: tp; pref(by F W Reis); author's pref; tab cont, coins; tab cont, gems; text tp; text, coins; text title; text, gems; append. cat no list.

Coins & engraved gems in Joseph De France collection, and including some others, in Vienna. The gems are described on p 165-397 according to subject groups as from mythology, history, etc.

1856. -----1788

Choix | Des | Pierres Gravées | Du | Cabinet Impérial | Des Antiques | Représentées En XL Planches | Décrites Et Expliquées | Par M.L'Abbe Eckhel | Directeur De Ce Cabinet Et Professeur | Des Antiquités En L'Université | De Vienne. | [double rule] | A Vienne En Autriche | De L'Imprimerie De Joseph Noble De Kurzbek, | Libraire-Imprimeur De La Cour- | MDCCLXXXVIII. [Vienna, 1788]

2°: [14], 77, [1 blank]p; titlef + *-***^{2}, A-T^2, U; 40 engrav pls bound-in. 39 x 27.7 cm(15 3/8 x 10 7/8 in). Uncut, JSL.

Cont: tp; pref; pls list; text & pls; blank p.



1856. Apotheosis of Augustus cameo from Eckhel's "Choix des Pierres Gravées" of 1788

Illustrations and descriptions of 40 of the largest and most important engraved gems in the Imperial Cabinet of Antiquities in Vienna. The plates are superb and designed by Kibler & Kohl, and engraved by Kohl, Mark, Schütz, Ponheimer, Mansfeld, Adam, and Durmer. There is one gem per plate, each considerably enlarged in the case of smaller gems, and with the largest engraved gems drawn to exact size as notably for the celebrated Apotheosis of Augustus, ca 22.5 x 18.5 cm, also Augustus with the Goddess of Rome, ca 11 x 10 cm, and the Roman Eagle gem, ca 19 cm diameter. However, for enlarged gems, a scale is given to show true size. The first four plates of Reinach's *Pierres gravées*, 1895 as well as his tinted frontispiece plate, depict the same gems, while a commentary and explanations of the subjects is provided on p 1-9, with the remark that the work is artistically "mediocre" in value. Vinet, 1642, cites A L Millin's characterization of the descriptions as succinct,precise, clear and satisfying. Furtwängler, *Die antiken Gemmen*, 3, p 420-1, admired the care taken with the engravings and their fidelity to the originals, but also remarked that Eckhel was "not critical enough" in distinguishing obvious Renaissance gems from the antique. For modern descriptions of the gems and a full history of the collection, consult Eichler & Kris, *Die Kameen*

im Kunsthistorischen Museum, 1927, Other notices in Goodland, p 181; Cicognara, 2829; Zazoff, *Gemmensammler*, 148-50.

Eckhel's preface is a brief history of the collection but also includes general remarks on previous illustrated works on engraved gems as well as how the present work was conceived and brought into existence.

EDDY, L H , see AUBURY, L E

EDELSTEIN GRAVIERKUNST, see RUPPENTHAL, 1976

EDELSTEINE. SCHLEIFARTEN..., see FACHGRUPPE EDELSTEINE...

EDELSTEINE AUS IDAR-OBERSTEIN, 1953, see SCHLOSSMACHER, K , 1953

1857. EDINBURGH. ROYAL SCOTTISH MUSEUM ... Guide to the collection of Scottish agates. Glasgow, Printed by J.Hedderwick & Sons for H.M.Stationery, Off., 1899. 24 p. 21 cm. At head of title: Science and Art Department, Edinburgh Museum of Science and Art. "Written by Mr.J.G.Goodchild." - Introd. signed: R.Murdock Smith... Director. Not seen: LC 15-6930.

1858. EDINBURGH REVIEW Art.VII.- 1. *The Natural History, Ancient and Modern, of Precious Stones and Gems, and of Precious Metals*... C.W.King... 1865. 2. *Handbuch der Edelsteinkunde*... Karl Emil Kluge... 1860. 3. *Gems and Jewels* ... Madame de Barrera... 1860. 4. *Diamonds and Precious Stones*... Harry Emanuel... 1865. Vol 124, 1866, p 228-60. While purporting to be a review of the above works, this lengthy article devotes itself almost entirely to extracts from King's book, and in effect becomes a short treatise on gemstones and engraved gems with emphasis on the romantic aspects. The anonymous author expresses surprise that King did not refer to Kluge's work of "research and erudition," and finds Barrera's work "amusing partly from the sort of matter which she has collected in it, but chiefly from the errors with which it teems," while Emanuel's book is dismissed with faint praise. JSL.

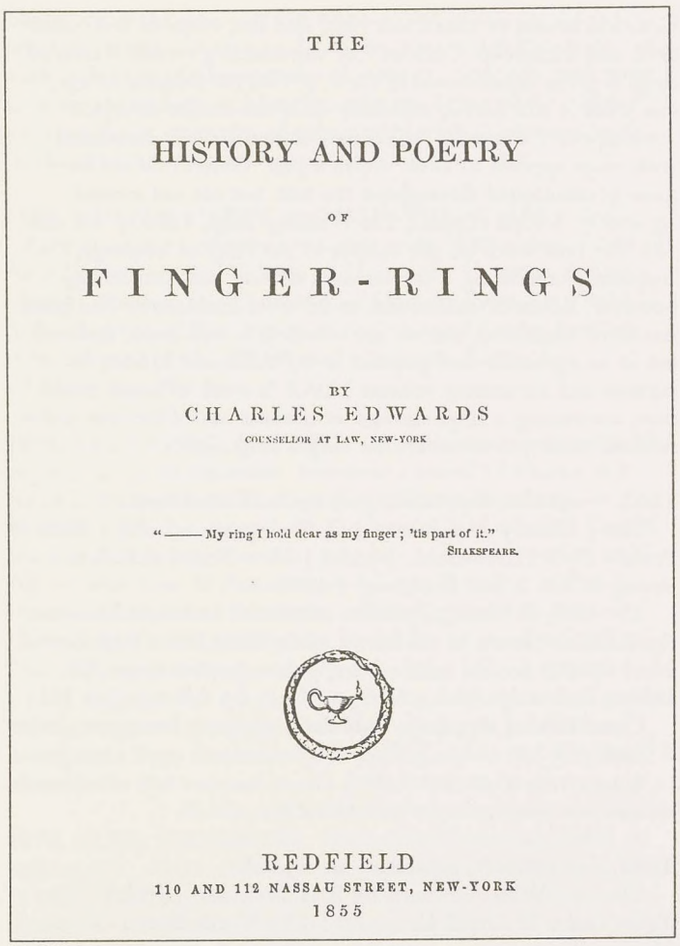
1859. -----1871 Art.V. - Correspondence between the Governor of the Cape Colony and the President of the Orange Free States, relative to the disputed Ownership of the Diamond Field Territory, presented to the Cape House of Assembly, 1870-1. Vol 134, October 1871, p 211-31. Examines events leading to settlement of Boers and English subjects in the Diamond Fields Territory, later to be named Griqualand West, and the disputes as to ownership of same, especially after diamonds were discovered and English settlers increased. JSL.

EDLE STEINE UND MINERALIEN, see RUPPENTHAL, 1976

1860. EDOUARD-PETIT, ALIX Aux Iles des Perles. *J le Correspondent*, Paris, Mar 10, 1906, p 977-96. Not seen: Kunz & Stevenson, *Book of the Pearl*, biblio.

EDWARDS, CHARLES(1797-1868)

USA attorney-at-law, writer; b Norwich, Engl, educ Cambridge; emigrated to New York to study law, admitted to bar; counsel to Brit Consulate Gen for 25 yrs; prolific writer on legal matters but also on other topics. DAB.



THE

HISTORY AND POETRY

OF

FINGER-RINGS

BY

CHARLES EDWARDS

COUNSELLOR AT LAW, NEW-YORK

"——My ring I hold dear as my finger; 'tis part of it."

SHAKSPEARE.

REDFIELD

110 AND 112 NASSAU STREET, NEW-YORK

1855

1861. Titlepage of Edwards' book on finger rings and a classic in its day

1861. -----1855

The | History And Poetry | Of | Finger-Rings | By | Charles Edwards | Counsellor At Law, New-York | "----My ring | hold dear as my finger; 'tis part of it." | Shakspeare. | [vignette] | Redfield | 110 And 112 Nassau Street, New-York] 1855

12°: 239, [1 blank], [12 advert], [2 blank]p; preliminary matter numbered in italics; engrav front pl tip-in, part col, part gilt, with tissue; 46 text wood engrav. Dull red, leather-grained cloth, blind frames on covers, blind rules, gold lett & ring on spine. Pale tan endp. 18.6 x 12.7 cm (7 3/8 x 5 in). Cut. LC 9-7468. JSL.

Cont: blank f supplied; pl; tp; publ data; dedic; tab cont; 5 chs; index; blank f.

An interesting, scholarly, and in its day, the principal treatise on rings and the gemstones mounted in them, describing examples from the most ancient periods into the present in all lands. It is the first major work on the subject by an American author and precedes by a number of years the relatively more common work by William Jones of England, *Finger-Ring Lore*, 1877. The text is in five chapters treating a wide variety of topics in the first, with rings connected with the exercise of power or authority in the second, rings supposedly endowed with magical or mystical properties in the third, rings coupled with remarkable

historical events or characters next, and last, rings of love, affection, and friendship. Curious lore surrounding certain classes of rings is given much space in Ch 3, p 99-110. Despite its age, this work is still useful, especially since the author interjects contemporary events in which superstition or luck associated with rings appears to have played a part. Gemstones are frequently mentioned throughout the text but are not treated separately. Joseph Haskell, *The Wedding-Ring*, 1888, p 44, calls this "the best work on the subject in the English language," frequently consulting it for his own writing but "preferring, however, Edwards' authorities to his own statements. The book has some blemishes, but on the whole it is well done, and written in an agreeable and popular style," Allibone, 1, 544, "a curious and interesting volume." DAB "a work of much erudition, containing a large amount of curious out-of-the-way information, conveyed in somewhat turgid language."

1862. -----1880, reprinted, pref by R H Stoddard

The | History And Poetry |...| Shakspeare | [rule] | With A Preface By R.H.Stoddard. | [rule] | New York | A.C.Armstrong & Son | 714 Broadway | 1880

12°: 239, [3 blank]p; prelims numbered in italics. Same text fig. Reddish-brown or dk brown cloth, blind frame with central blind circular orn on both covers; gold rules, lett spine. Dk brown, dull endp. 18.5 x 12.5 cm(7 1/4 x 4 7/8 in). Cut. JSL.

Cont: blank f suppl; tp; publ data; pref; tab cont; text; index; 3 blank p.

Richard Henry Stoddard(1825-1903), eminent Amer poet & lit critic; his pref occupies space formerly taken by dedic. Printed from same pls.

1863. -----1884(?), reprinted, new publ

The |...| With A Preface By R.H.Stoddard. | [rule] | New York | John W.Lovell Company | 150 Worth Street, Corner Mission Place

8°: as above to p 239 + [1 blank]p; same ill. Dk blue cloth, gilt title in frame on spine. 18.8 x 12.5 cm(7 3/8 x 4 7/8 in). Teg. Paper resembles hand-laid. JSL. No change.

1864. ----1889, cheap wrap edit

The |...| [rule] | New York: | Pollard & Moss, Publishers | -Of The- | [3 lines, logos] | 37 Barclay Street and 42 Park Place. | - | 1889.

16°: edgestapled, identical to p 239 & blank p, but thereafter with [1 advertlp + [2] p + 13, [1]p adverts. Same ill. Brown paper wrap. 17.9 x 12.3 cm(7 x 4 7/8 in). Cut. JSL.

Exact reprint but with added advertising matter, including a title and excerpt from a novel; paper extremely browned & fragile, and probably very few copies have survived.

1865. ----1977, reprinted by Gordon Press, library binding, $59.95. ISBN 0-8490-1964-8. Not seen.

1866. EDWARDS, C B & HOWKINS, J B Kimberlites in Tanganyika with special reference to the Mwadui occurrence. *Econ Geol*, 61, 1966, 537-54, 10 fig, 9 refs. JSL. Based on observations on more than 200 occurrences in Tanganyika(Tanzania): kimberlite provinces, surface expressions and classification, details on Mwadui(Williamson) mine; the observations on the latter occurrence, which has yielded over 6,000,000 carats of diamonds, used to deduce that kimberlite was emplaced as a slowly ascending crystal aggregate lubricated by volatiles.

1867. EDWARDS, ELLIS

A | Journey Through | South Africa. | Illustrated. | By | Ellis Edwards. | [rule] | Liverpool: | C.Tinling And Co., Printers, 53 Victoria Street. | [rule] | 1897. | Price 2/=Nett.

8°: [4], 122 p; front photo pl on glossy f tip-in + 6 others, also tip-ins, each with loose thin-paper guard. Dk red cloth, gold lett cover & spine. Pink oak-leaf pattern endp. 18.9 x 12.8 cm(7 1/2 x 5 1/8 in). Cut. JSL.

Cont: pl; tp; pref; ill list; tab cont; 15 chs.

An all-too-brief section tells about the author's conversation with a Mr L Boyes who claims to have discovered the diamond fields and at the time made plain his resentment for not being so credited(p 39-40). In Ch 8, p 48-63, Kimberley is described along with the diamond mines and processing plants that the author visited. Non-technical, rather shallow treatment, and aside from its value as an eyewitness account, is not very informative.

EFFIGIES REGVM FRANCIAE, see EBERMEYER, J M v, 1722

1868. EFIMOVA, EVDOKIYA MIKHAILOVNA

E.M.Efimova | Russkii | Reznoi Kamen | V Ermitazhe | Fotografii A.Bulgakova | Izdatelstvo Gosudarstvennogo Ermitazha · Leningrad · 1961 [with facing title:]

E.M.Effimova [sic] | Russian | Stoneware | In The Hermitage Museum | Photographs By A.Bulgakov [sic] | Published By The Hermitage Museum · Leningrad · 1961 | E.M.Efimova [sic] | Pierres Taillées | Russes | Au Musée De L'Ermitage | Photographies De A.Boulgakov [sic] | Edition Du Musée De L'Ermitage · Leningrad · 1961 [all titles in black & brown-red]

8°: 134, [2]P.; P [36-120] unnumb; P [37-120] on glossy paper including pl sect prelim leaf & photos; 81 b&w photos on 41 glossy f bound-in + 8 col pls on glossy f tip-in(the color pls printed on one side only and are not included in pag); ch orns in brown-red. Reddish-brown cloth, black & gold urn on cover; gold lett & black scrolls on spine. Reddish-brown marble pattern endp. Col dj. 28.9 x 22.4 cm(11 3/8 x 8 7/8 in). Cut. Sections steel-stapled. 5,000 copies. 1 r 85 k. JSL.

Cont: logo; titlepages; edit data; Russ text; Engl summ, Fr summ; pl sect prelim(decorated); pls sect; ill lists; tab cont; publ data.

Illustrated catalog of 89 stone ornamental objects made by Russian artisans during Tsarist times and housed in the Hermitage Palace Museum, Leningrad. Includes vases, bowls, obelisks, torcheres, inlaid tables, etc , made from igneous and metamorphic rocks, also quartz, quartzite, rhodonite, jaspers, and malachite overlays. The text describes the development of the industry and some of the factories, sources of materials, and other aspects of the industry but fails to describe lapidary equipment and techniques involved in the manufacture of the many of the large size pieces which in respect to size, quality of materials, design, execution and finish have few rivals. Photo captions give inventory number, size in cm, material, type object, and where fashioned. Photo quality only fair.

EGAN, E W , see WEBSTER, R , 1977

1869. EGGELING, JOHANN HEINRICH(1639-1713)

Mysteria Cereris et Bacchi in vasculo ex uno onyche serenissimi

et reverendissimi principis ac domini dn. Ferdinandi Alberti, ducis Brunsuicens. & Lüneb... per epistolam ad dominvm hvnc svvum clementiss., evoluta a Johane Henrico Eggelingo... Brunsvigae, literis Zillingerianis [1682] 44 p. 21 cm. Bibliogr. notes in margins. USGS Kunz Coll, GS 34-597. On engraved gems; not seen. *Biogr Univ*, 12, p 364-5, gives place of publ as Bremen 1681, and notes that it is "inserted in volume VII of *du Ths.antiq.graec.* of Gronovius. The author was a famous German historian, antiquary, professor of history in Bremen.

EGYPT. PALACE COLLECTIONS, see SOTHEBY & CO, 1953.

1870. EHRMANN, MARTIN L (1903-1972) Gem mining in Burma. *G & G*, 9, 1, 1957, 3-30, vita p 31; 23 photos, another on wrap cover and portr of author, p 31. Also: Burma, the mineral Utopia. *Lap J*, 11, 3, 1957, p 306-18, passim; 4, p 442-54, passim; 5, p 544-54, passim, ill. Both articles based on author's many gem-buying trips and with photos taken by himself; describes geography, transport, the people, mining & recovery of gemstones, geology of deposits, mineralogy, history, jade & amber mines, gem trading. Obit *Amer Min*, 59, 1974, p 414.

EHRMANN, M L, see WHITLOCK, H P & EHRMANN, M L

EICHHOLZ, D E , see THEOPHRASTUS, 1965

1871. EICHHORN, I G De gemmis scalptis Hebraeorum. *Commentationes Societatis Regiae Scientiarum Gottingensis*, 1813,(1811-13), vol 2, Cl litt, antiquar et artim, p 1-31. Not seen.

1872. EICHLER, FRITZ & KRIS, ERNST

Die Kameen | Im | Kunsthistorischen | Museum | Beschreibender Katalog | Mit 844 Abbildungen Im Text Und Auf 84 Lichtdrucktafeln | Bearbeitet Von | Fritz Eichler Und Ernst Kris | 19 [logo] 27 | Verlag Von Anton Schroll & Co. In Wien

"Publikationen | Aus Den Kunsthistorischen | Sammlungen In Wien | Band II |... [date & publ]"

8°: X, 246 p + 84 pls on as many f, bound-in; 83 text photos, the remainder of photos on the pls. Unfin black cloth spine, elaborate scrolled panels & gold title; reddish-brown mottled paper over bds. Pale tan endp. 30.2 x 23 cm(11 7/8 x 9 in). Cut. JSL.

Cont: ser tp; tp; publ data; tab cont; publ note; fwd; inventories & refs(95 entries); how to use catalog; introd; catalog; correlations of cat nos with older publs; index; index of artists; pls.

Handsome, exceptionally thorough annotated catalog of the extremely important collection of engraved gems in the Art Museum in Vienna. The introduction is a detailed history of the collection with comments on the uses of engraved gems, including uses in jewelry, as ornamental objects, and even in furniture, with several photographic illustrations. Gems in the catalog are arranged chronologically by culture or by country. Special treatment is accorded to the celebrated Gemma Augustea, the enormously large cameo which has no match, as well as to several other extremely large examples. The catalog includes rings, jewels, and small sculptures in various gem materials, the last being described in adequate detail. An interesting feature of the work is the use of photographs of settings, especially back views to show inscriptions of historical interest. Some of the settings are magnificent examples of goldsmith's work. Definitive work on the collection, much in demand but quite scarce.

1873. EISEN, GUSTAV or GUSTAVUS, A (1847-1940) ...Ancient oriental cylinder and other seals. With a description of the collection of Mrs. William H.Moore. By Gustavus A.Eisen. Chicago, Illinois: The University of Chicago Press, [ca 1940]. At head of title: "The University of Chicago Oriental Institute Publications, vol.47." xiii, 94 p. 1 f, xvii pls. 30 cm. LC 40-13161 rev. Not seen.

1874. EKENBERG, MARTIN Om ädelstenar och andra till smycken använda naturalier. Föredrag i Svenskt Industri- och Handels-Museums Auditorium af D:r Martin Ekenberg. In: *Berättelse Öfver Föreningens För Ett Svenskt Industri- Och Handels-Museum Verksamhet Fran Dess Stiftande Den 16 September 1895 Till Årsmotet Den 26 Februari 1897* Jämte Föredrag Hållna I Museets Auditorium. Stockholm 1897: Koersners Boktryckeri-Aktiebolag. 8°: 127, [1 blanklp; ill. 20.3 x 14 cm(8 x 5 1/2 in). The article by Ekenberg on p 94-122, 2 fig. JSL. A general survey of gemstones: physical properties, measurement of same, cutting, engraved gems, gem settings, mining & production, descriptions from diamond and including amber and jet. Elementary.

1875. ELBE, MAXIMO G Erstaunliche Schmuckeffekte an Brillanten(1). *Zs Dt Gemm Ges* 21, 4, 1972, 189-212, 8 fig; 22, 1, 1973, 1-23, figs 9-22, 15 refs. Proposes an entirely new design for diamond brilliant cut, based on calculations and tests, and sure to produce "astonishing effects."

1876. -----1978

[brilliant cut] | Der Brillant | Máximo G.Elbe [facing title:] Zueignung | Gerda Magnusson | Sierksdorf, Weihnachten 1978 [Priv publ: Dr.-Ing.M.G.Elbe, Vogelsang 8, D-2409 Sierksdorf/ Ostsee.]

Cementb: 149, [3 blank]p; 100 photos, graphs, line drawings; 17 tab. Bright blue cloth, white brilliant & title on cover; white spine title. Similar dj. 19.7 x 13.9 cm(7 3/4 x 5 1/2 in). Cut. Dm 25.- JSL.

Cont: 1/2tp; dedic; tp; publ data; ackn; tab cont; fwd; text; biblio 26 entries; index; 3 blank p.

Thorough analysis of diamond brilliant-cut design to establish angles and proportions of facets apt to provide maximum brilliance. Discusses means of measuring brilliance, importance of maximum facet smoothness, properties of diamond, early calculations of proportions, nature of light and human vision, cutting machinery, and many other considerations entering into obtaining maximum weight yield from rough with maximum brilliance. Highly technical; despite claim of being for the layman, few persons in the industry could or would follow the author's treatment in many sections where mathematics is employed.

1877. ELDITT, HEINRICH LUDWIG Das Bernstein-Regal in Preussen. In: *Altpreussische Monatsschrift*, Königberg im Preussen, Neue Folge, 5, 7,1868, p 577-611; 8, 673-98; 6, 5 & 6, 1869, p 422-62; 7, 577-610; 8, 673-98; 8, 5 & 6, 1871, p

385-426. Wrap separate, 22 cm. USGS Kunz Coll, GS 34-717. Detailed history of commerce in Baltic amber and development of the "royal prerogative" which governed the industry from the 13th century up to recent times. Contains a great deal of valuable and accurate information on all aspects of the industry, eg, methods of gathering amber, mining, processing, classifying,and trade, not to mention discussion of the laws that were enacted to regulate the industry, to forbid illegal collection, punishments, etc.

ELGIN, EARL OF, see CEYLON GOVERNMENT PEARL FISHERY REPORTS

1878. ELLER, E R

Birthstones | by | E.R.Eller | Curator, Section of Geology and | Invertebrate Paleontology | Carnegie Museum | Pittsburgh, Pennsylvania

Wrapper title; "The... birthstone articles were published in The Carnegie Magazine during 1957. The booklet came out the following year. Also during 1958 "Antiques Journal" ran the series" (pers comm, R E Eller, 1967).

Centerstapled: [20]p; 12 photos. Very pale gray wrap, blue cover title. 22.8 x 17.8 cm(9 x 7 in). Cut. $.75. JSL. Brief account of birthstone lore with some economic and mineralogical data; well-written, interesting.

1879. ELLIS, A B South African sketches. By A.B.Ellis, Major, First West India Regiment... London: Chapman and Hall, Limited. 1887. 8°: 256 p. Not seen, from Mendelssohn: "tales of the early days of the River Diamond Diggings in Griqualand West... the author evidently possessed an accurate knowledge of the Vaal River Diggings, and the sketches of that period of the diamond industry are distinctly interesting,"

1880. ELLIS, CLARENCE

The Pebbles | On The Beach | by | Clarence Ellis | Faber And Faber Limited | 24 Russell Square | London [1954]

8°: 163 p; 4 col pls tip-ins, each with facing text p of outline drawings of the objects and descriptions; 10 fig. Dk maroon unfin cloth, pale pink lett spine. Col dj, resume, advert, col photo. 20.2 x 13.3 cm (8 x 5 1/4 in). Te stained pale yellow. 12s 6d. JSL.

Cont: 1/2tp; tp; publ data; tab cont; col pls list; introd; 6 chs; append(biblio, annot, 12 entries); index.

Factual, simply-written, for the inspiration and guidance of collectors during seaside visits or to mineral and gemstone collectors in general. How a beach forms, the raw materials, development of a shingle, kinds of pebbles, rocks and minerals, hunting for pebbles, etc, with these being mainly varieties of quartz but also including amber and jet, places to look along the coastline of England and Wales. Instructions, etc, applicable everywhere. Rev *The Gemm*, 24, no 288, 1955, p 136.

1881. -----1965, in paperback, not seen

1882. -----1971, paperback

The Pebbles |...| 3 Queen Square | London [1971]

16°: 163, [1 blanklp; 10 text fig; 4 tip-in col pls not in pag but key drawings are facing and included in pag. Col photo wrap. 19.9 x 13.1 cm(7 5/8 x 5 1/8 in). Cut. ISBN 0 571 06814 6, paper;) 571 06543 0, hard- cover. JSL. "First published in this edition 1965 Reprinted 1966, 1967, 1968 and 1971." Another reprinting in 1974, 160 p, same ill, but col ill now grouped between p 64-65 and bound-in, the first key drawing on text p facing first plate, the remainder on versos of the first 3 glossy col pl f. This grouping alters original page count. Another reprint in 1972.

ELWELL, DENNIS

Brit physicist; grad Imperial Coll Sci & Tech Univ London; BSc phys 1957; PhD phys Sheffield U; 1976 to Stanford U, Calif; author 3 other bks.

1883. -----1979

Man-Made | Gemstones | D.Elwell | Center for Materials Research | Stanford University | [logo] | Ellis Horwood Limited | Publishers Chichester | Halstead Press: a division of | John Wiley & Sons | New York-Chichester-Brisbane-Toronto [1979]

16°: 191, [1 blanklp; glossy photo col front pl tip.in; 52 photos & line drawings including 8 in col on 4 bound-in glossy pls. Light blue unfin cloth, title & logo in gold on spine; blue endp. Te stained blue. Col dj with diamond crystals in col; other publ bks, flap resume, vita. 22.9 x 15.2 cm(9 x 6 in). Cut. LC 78-41291; ISBN 0-85312-128-1, Horwood; ISBN 0-470-26606-6, Halsted Press. £ 15.00 or USA $36.50. JSL.

Cont: 1/2tp; col pl; tp; publ data; tab cont; dedic; pref; ackn; introd; 9 chs; 5 appends(Append 5, biblio, 12 entries); index; blank p.

A useful, authoritative modern survey: history of gemstones from antiquity to present, importance of discovery of glass as a gem substitute, discovery of synthesis methods, synthesis & details on same for corundum, spinel, emerald, diamond, silica species & opal, other gemstones and some that have no natural counterparts. There are two chapters on possible synthetics of the future and a final chapter on testing and identification of synthetic gems. Appendices: properties of common gemstones, specialized terms, how to grow ruby, suppliers of synthetic rough, bibliography. The illustrations include portraits of Verneuil and Gilson, apparatus, etc. Rev *Zs Dt Gemm Ges*, 28, 4, 1979, 207; *Austral Gemm*, 14, 6, 1981, 145-6.

ELWORTHY, FREDERICK THOMAS(1830-1907)

Brit linguist, philologist; b Wellington, Somersetshire; stud dialects, philology in Engl; aided compilation *Oxford Engl Dict*; later interests in archeol & folklore; numerous publs in these fields. DNB.

1884. -----1895

The Evil Eye | An Account | Of This | Ancient & Widespread Superstition | By Frederick Thomas Elworthy | [engrav oval gem in pale red] | With Many Illustrations | London | John Murray, Albemarle Street | 1895 [title in pale red & black]

8°: xii (first 2 p blank), 471, [1]p; front pl with tissue tip-in; 188 fig; text diagrs; fold pl facing p 391 is tip-in. Dk red cloth, gold hand & amulet (woman astride seahorse) on cover; gold lett, rules, & Egyptian amulet on spine. 22 x 14.4 cm(8 5/8 x 5 5/8 in). Te uncut, unopened; fe uncut. JSL.

Cont: blank f; 1/2tp; pl; tp; pref; tab cont; ill list; 12 chs; 3 appends; index; print data.

The evil eye in its many versions in many cultures is minutely examined, and with accounts of superstitious beliefs related to the basic dread of the evil supposedly capable of being cast by certain supernaturally empowered persons. Barron, in his preface to the 1958 reprint below, says "it has long been out of print,

and only a few scarce copies have been obtainable from time to time from specialist antiquarian booksellers at prices most scholars could not afford," and, "for more than sixty years it has been not only the standard work but, in fact, the only scholarly, book length treatment of the subject in the English language." From the gemological point of view, this work is valuable for its descriptions of engraved gems that depict upon them objects, symbols, inscriptions, and the like, for the purpose of converting them into powerful amulets and talismans. References to engraved gems are scattered throughout the text but most are to be found in Ch 4, "Symbols and Amulets," p 115.57. C W King,s *Gnostics* is relied upon heavily by the author for much of his engraved gem information.

1885. -----1958, reprint

Frederick Thomas Elworthy The Evil Eye | The Origins And Practices Of | Superstition | Introduction by | Louis S.Barron | The Julian Press, Inc. Publishers | New York [1958; title spread over 2 pages]

16°: [2], xi, [5], 471 p; same text ill but front pl omitted. Unfin black cloth, gold & green lett on spine with green "eye." Col dj, black & green lett, green masque; other publ bks, resume, vita. Pale gray endp. 22.8 x 15.2 cm(9 x 6 in). Cut. JSL.

Cont: 1/2tp; tp(2 p); publ data; text tp; introd; tab cont; ill list; text;index;blankp.

Barron's introduction briefly notes the existence of the evil eye superstition, furnishes a few remarks on the original,and its influence upon subsequent works dealing with occult subjects; text same.

1886. EMANUEL, HARRY

Diamonds | And Precious Stones: | Their | History, Value And Distinguishing | Characteristics. | With Simple Tests For Their Identification. | By | Harry Emanuel, F.R.G.S. | London: | John Camden Hotten, Piccadilly. | 1865. | The Right of Translation is reserved.

8°: [4], xvi, 266, 6(advert) p.; 28 fig; 4 tan-tint litho tip-in pls; 1 tip-in steel engrav pl. Dk blue cloth, gold wavy-rule border frame, crystal forms at corners, pearls at midpoints, enclosing title & cut gem in gold on cover; back cover same, but enclosing rough diamond & without title; wavy-rule frame, gold lett, rules, etc on spine. Bevel bds. Dk blue dull endp. 19 x 12.5 cm(7 1/2 x 5 in). Te uncut, fe untrimmed. Pale tan paper. JSL.

Cont: note of pl error; 1/2tp(gold lett on blue panel, gold orn frame, col precious opal in center, tissue); tp; print data; pref; errata; tab cont; introd; text; append(biblio p 233-60, 299 entries); index; publ bks catalog.

Highly interesting and eminently readable account of gemstones meant for the general reader. In its day, it was much esteemed and passed quickly into a second edition and reprintings. The first several chapters treat gemstone properties, ancient concepts of gemstones, gemstones in the Bible and those in the High Priest's breastplate, and with the remaining chapters taking up the individual species and varieties beginning with the diamond. An important feature here is a large detailed chapter on famous diamonds, some of which are depicted on the tinted lithograph plates. Oddly, now appears a chapter on lapidary work, but then the text resumes with more gemstone descriptions arranged according to their commercial importance rather than to their mineralogical relationships. There is also a chapter on pearls and another on "substances used in jewellery not properly precious stones," that is, moonstone, lapis lazuli, malachite, feldspars, jades, jet, amber and coral. The last chapter is on gem identification but is too short to be of value, and also contains a section on nomenclature of gemstones in various languages and precious stones arranged according to colors. The large bibliography is no more than a list of authors and titles, some non-existent, and others only tenuously connected with the theme of the book.

The first leaf of the book contains remarks on certain errors made upon the engraved plate facing p 93, and a reprint of the present work, with same date, was issued with a new plate to cancel the old; it is distinguished by the small "t" in the carat abbreviations by the side of the cut diamond figures which now comes to a point at the top instead of having the original left-pointing serif. The leaf noting this error is absent in this re-issue.

1887. ----1865, large paper issue. Same title, but the note on translation rights appears just below the lower border of an ornamental pale red frame which encloses the title; this same border is used throughout to enclose the print except for adverts on plain paper. 8°: [2], xvi, 266, 6[advert]p; same ill but now augmented by two rather crude color litho pls which face p 101 and 178 and are tipped-in. The col 1/2tp is retained but the leaf noting errors in the cut diamond plate is absent while the plate itself differs from the plate in the first issue and the cancel of the re-issue. Green leather spine, gilt title & fleuron at top, publ at bottom; boards covered with smooth, dull red paper; marbled endp. 26.2 x 20.4 cm(10 3/8 x 8 in). Te gilt; fe untrimmed. JSL. Only several copies were examined, but all were poorly bound which caused sections to loosen and fall out. The new color plates show cabochon and faceted gems.

1888. -----1867, 2nd edit

Diamonds |...| Harry Emanuel, F.R.G.S. | Second Edition, | With A New Table Of The Present Value Of Diamonds. | London: |...| 1867.|...

8°: [4], xxii, 266, 6[advert]p; same ill, binding, etc. LC 17-7744.

Cont: 1/2tp; print data; col 1/2tp with tissue; pref to new edit; addit note on diamonds; pref; tab cont;...

Identical except for a few minor corrections and additions to the text with an additional short preface and brief remarks on famous diamonds and pearls inserted ahead of the original preface. The first leaf is now an additional half-title. The continuing demand for this book resulted in a bewildering assortment of reprintings as noted below, and probably more have escaped my attention. Reprint of 1868 or 69, bds not beveled, back cover blind-stamped, tissue omitted; 1870, same, but with dull brown endp; 1871, publ catalog of bks now 16 f and dated 1871, endp dull gray-brown; 1872, catalog now 18 f, dated 1872, endp dk blue; 1873, same, catalog dated 1873, endp dk gray-brown; 1876, but catalog now for Chatto & Windus bks, [2] + 32 p, endp pale gray-brown and this company's name now on spine foot; 1878, 1/2tp f omitted, catalog now 40 p, a gold floral orn at foot of spine in lieu of C & W name, brown endp; 1881, 32 p catalog, shortened by 3 mm, pale gray endp; 1883, 32 p catalog, pale gray-brown endp; 1887, name of Hotten reappears on spine foot, pale gray endp.

1889. -----1873, 2nd edit, New York

Diamonds |...| Second Edition, | With A New Table Of The Present Value Of Diamonds. | New York: | G.P.Putnam's Sons, | Fourth Avenue And Twenty-Third Street. | 1873.

8°: [4], xxii, 266, [2 blank], [4 advert], [2 blank]p; same ill as in London 2nd. Reddish brown cloth, black orn frame on covers, gold rules & lett spine, with black rules and orns. Bevel bds. Reddish-brown dull finish endp. 18.5 x 12.3 cm(7 1/4 x 4 7/8 in). Cut. Teg. Pale tan paper. JSL.

Cont: 1/2tp; print data; col 1/2tp & tissue; tp; pref to new edit; addit notes on diamond; pref; tab cont; introd; text; blank f; adverts; blank f.

Identical to London 2nd; another issue in similar cloth but ornamented with horizontal rules & bands in black on the cover, with a central medallion in black; same on back cover but blind; spine gilt lett, rules only. Bevel bds. Te not gilt. Dk green endp, dull finish. JSL.

1890. EMDEN, PAUL H

Randlords | By | Paul H.Emden | London | Hodder & Stoughton | 1935

8°: 368 p; front portr photo of Alfred Beit on glossy tip-in f + 6 ill on 6 tip-in glossy f. Bright blue cloth, gold lett, rule, logo on spine. White dj, title in blue on cover & spine; rev back cover. 22.4 x 14.3 cm (8 3/4 x 5 5/8 in). Cut. JSL.

Cont: 1/2tp; pl; tp; publ data; dedic; fwd; tab cont; ill list; survey; text; "aftermath."

On the powerful business and political leaders in South Africa, told in an interesting and authoritative manner. There are three parts, each with several chapters, the first on diamonds p 20-86, discussing the discovery and early days of mining and the persons involved, the development of the need to consolidate pipe claims, eventual amalgamation, and with much on the role played by Cecil Rhodes. The second part is on the discoverers and exploiters of the gold deposits on the Witwatersrand, while the last part, provides biographical notes on the "Masters of Mines," as Barnato, Beit, and others, either acting alone or in combines. Additional biographical notes appear in the "Notes" section,p 249-54. The photographs, are of prominent persons dealt with in the text and a few are caricatures. Scarce.

1891. EMERY, C Le formiche dell'ambra siciliana nel museo mineralogico dell'Università di Bologna. *Rc Sess Accad Sci Bologna*, Serie 5, I: 141-65; Bologna, 1891. Also in: *Mem Accad Sci Bologna*, Serie 5, I: 567-91; Bologna, 1891. Not seen; cited from Schlee & Glöckner, 1978, which see.

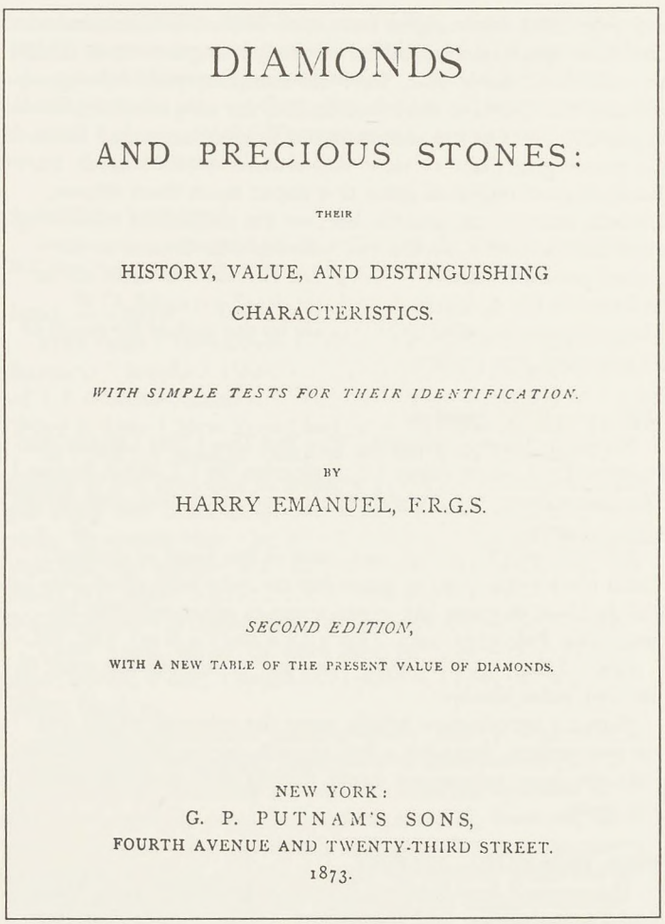
1892 ÉMILE-SOLDI

Émile-Soldi | [wavy rule] | Les | Arts Méconnus | [wavy rule] | Les Nouveaux Musées Du Trocadéro | Ouvrage orné de 400 gravures. | [rule] | Troisième Édition | [wood engrv vignette] | Paris | Ernest Leroux, Éditeur | 28, Rue Bonaparte, 28 | [rule] | 1881 [title in red & black]

In the series: "L'Art et ses procédés depuis l'antiquité."

8°: [6], XV, [1 blank], 531, [1 blank]p; 400 wood engrv(Includes 4 bound-in fold pls); many ch orns, orn inits, etc. Thick tan wrap, title in red in wood engrav frame on front cover; spine title; jewel back cover. 29 x 19.7 cm(11 3/8 x 7 3/4 in), Uncut. JSL.

Cont: series & 1/2tp; print data; tp; dedic; ackn; pref; introd; text; tab cont & ill lists; blank p.



DIAMONDS

AND PRECIOUS STONES:

THEIR

HISTORY, VALUE, AND DISTINGUISHING CHARACTERISTICS.

WITH SIMPLE TESTS FOR THEIR IDENTIFICATION.

BY

HARRY EMANUEL, F.R.G.S.

SECOND EDITION,

WITH A NEW TABLE OF THE PRESENT VALUE OF DIAMONDS.

NEW YORK:
G. P. PUTNAM'S SONS,
FOURTH AVENUE AND TWENTY-THIRD STREET.
1873.

1889. Emanuel's comprehensive treatise on gemstones which in its day competed with Dieulafait's translation and for many years was a principal source of reference in the English language

Essentially a guide to the industrial arts exhibits in the Trocadero Museum, Paris, lavishly illustrated with wood engravings and ornamental chapter titlepages. The preface describes the museum and its history while the introduction gives a general history of the development of industrial arts throughout the ages. The first chapter, p 21-65, is on cameos and intaglios as well as engraved work upon larger objects as cups, and is well-illustrated. At its end appear three tables summarizing notable features of art in various cultures as exemplified by engraved gems, the materials used in them, and giving a catalog, by period & culture, of a series of gems collected and donated or exhibited in the Trocadero by the author. Numerous references to lapidary work appear in the text, the chapter on American art, for example, containing remarks on the carvings in jade of the Precolumbian Indians, p 349-60. Other chapters treat the arts of the Middle Ages, Persian arts, also arts of the Khmer, American, and Egyptian civilisations.

1893. EMMANUEL, ISAAC S Precious stones of the Jews of Curacao, Curacaon Jewry, 1656=1957. New York, 1957. Said to be a "well documented work with valuable historical and biographical data as well as a comprehensive catalogue, glossary and index; many illustrations." Not seen.

1894. EMMONS, GEORGE T Jade in British Columbia and Alaska, and its use by the natives. *Indian Notes and Monographs*, Misc No 35, Museum of the American Indian, Heye Foundation, New York, 1923. 53 p, 25 col pls of jade objects. Not seen: HARDING, A D & BOLLING, P , p 25.

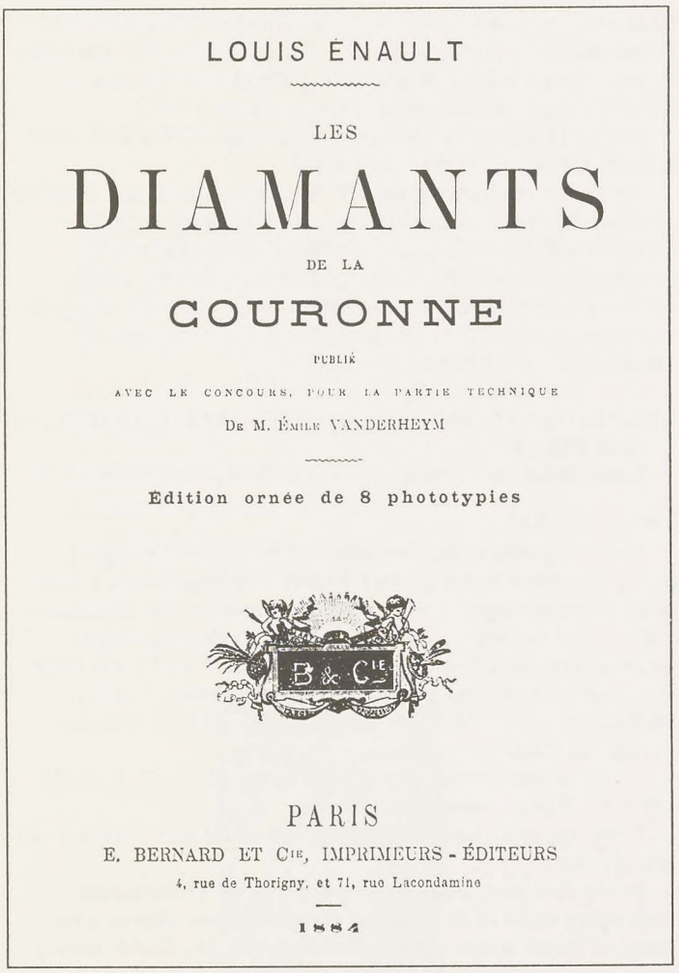
1895. ÉNAULT, LOUIS

Louis Énault | [wavy rule] | Les | Diamants | De La | Couronne | Publié | Avec Le Concours, Pour La Partie Technique | De M.Émile Vanderheym | [wavy rule] | Edition ornée de 8 photographies | [logo] | Paris | E. Bernard Et Cie, Imprimeurs-Éditeurs | 4, rue de Thorigny, et 71, rue Lacondamine | [rule] | 1884

8°: [3], [1 blank], VII, [1 blank], 150, [2 advert]p; 8 bound-in photo pls, tissues. Pale tan wrap, title on cover in panel; spine title; advert back cover. 23.5 x 14.2 cm(8 7/8 x 5 5/8 in). Uncut. Also in red pebbled cloth, elaborate blind stamped frames both covers & large gold title on front cover. 21.9 x 13.6 cm(8 5/8 x 5 3/8 in). Pl facing p 66 has edge folded. JSL.

Cont: 1/2tp; publ data; tp; pref; 12 chs; adverts; tab cont; adverts.

French Crown Jewels catalog published just before their sale in the same year and which were exhibited in the Salle Des États, Tuileries, Paris. In his preface, Énault regrets the need for disposing of the jewels and suggests in the last chapter that they should be kept in Paris in an exhibition like that accorded the English Crown Jewels in London. The preface also contains remarks on the stones of the High Priest's breastplate and on natal stones. The text is a popular description of the principal gemstones represented in the treasure as diamond, to which most space is devoted, ruby & sapphire, emerald, amethyst, turquoise, pearl, and opal. The technical matter on gemstones was provided by Vanderheym, Parisian jeweler. This work is also important for its early use of photographic reproduction in a book, a recently mastered process. The plates depict assemblages and parures of jewels largely set with one kind of gemstone and with diamond side stones. Valuable historical reference. Scarce.


LOUIS ÉNAULT

LES

DIAMANTS

DE LA

COURONNE

PUBLIÉ

AVEC LE CONCOURS, POUR LA PARTIE TECHNIQUE

DE M. ÉMILE VANDERHEYM

Édition ornée de 8 phototypies

B & Cie

PARIS

E. BERNARD ET Cie, IMPRIMEURS - ÉDITEURS

4, rue de Thorigny, et 71, rue Lacondamine

1884

1895. Enault's catalog of the French Crown Jewels issued just prior to their sale

ENCELIUS, see ENTZELT

1896. ENGEL, ALBERT E J The quartz crystal deposits of Western Arkansas. *Econ Geol*, 41, 1946, p 598-618. Much enlarged in the following: Quartz crystal deposits of Western Arkansas, *USGS Bull*, 973-E, 1952, edgestapled: v + p 173-260, Pls 25-45, Figs 20-29, to tabs. Of the plates, 15 are maps, sections, etc in back pocket. $1.50. JSL. Brief history of mining, production and uses of the crystals then much detail on the geology of this quartz-vein region and its specific deposits, how the latter form, their features, methods of mining, characteristics of the crystals, and other topics. By far most crystals are now sold as decoration pieces, mineral specimens, or used in single crystal form for occult applications and for healing.

1897. ENGELEN, ULRICH Die Edelsteine im Rheinischen Marienlob. *Frühmittelalterliche Studien*, 7, 1973, p 353-76. Not seen.

1898. -----1978

Ulrich Engelen | Die Edelsteine | In Der Deutschen | Dichtung Des 12. Und | 13. Jahrhunderts | 1978 | Wilhelm Fink Verlag München

Facing: "Münsterische Mittelalter-Schriften... Band 27."

8°: 428 p; green cloth, black spine label gilt. 23 x 15.4 cm(9 x 6 1/8 in). Cut. ISBN 3-7705-1242-2. DM 140.- JSL.

Cont: 1/2tp; ser tp; tp; publ data & dedic; tab cont; text; biblio (334 entries); indexes.

Scrupulously detailed, complex work which examines between 80 and 100 German poems of the 12-13th centuries, with some outside this period, to trace the numerous means by which gemstones were mentioned or used symbolically, metaphorically, or allegorically in them. Discusses problems of nomenclature, examines the extent of gemological knowledge at the time, that is, their physical & optical properties, uses in personal ornaments, as material for decoration and building, etc, gemstone allegories and metaphors, descriptions of individual gemstones, agate to turquoise, and their lore. In addition to a very large bibliography, there are many footnotes which taken with the fine-print text provide much useful background reading for the exploration of curious lore among gemstones.

1899. ENGELHARDT, ERNST(1866-)

Lumineszenzerscheinungen | der Mineralien im ultravioletten Licht. | [rule] | Inaugural-Dissertation | zur | Erlangung der

Doktorwürde | der | Hohen philosophischen Fakultät | der | Universität Jena | vorgelegt von | Ernst Engelhardt | aus Meiningen. | [taper rule] | Weida i.Th. | Druck von Thomas & Hubert | Spezialdruckerei für Dissertationen | 1912.

8°: 39, [3]p; photo. Pale gray print wrap. 23.4 x 15.5 cm(9 1/4 x 6 1/8 in). Cut. JSL. GS 14-364.

Results of experiments on UV fluorescence of a large number of minerals, giving name, locality, color, intensity of fluorescence/phosphorescence, and including diamond, sphalerite, quartz, opal, chalcedony, zircon, corundum, fluorite, calcite, smithsonite, rhodochrosite and others, both gem and non-gem. This appears to be the first comprehensive investigation of luminescence in all classes of minerals.

ENGELHARDT, MORITZ von(1779-1842) & GÖBEL, or GOEBEL, F

Engelhardt was prof mineralogy Univ Dorpat, Esthonia 1820-30; Pogg I, 669.

1900. -----1830

Die | Lagerstätte der Diamanten | im | Ural-Gebirge. | [rule] | Untersuchung | von | Moritz von Engelhardt. | [orn rule] | Bemerkungen | über das | Vorkommen der Diamanten | im | Ural-Gebirge, | und | chemische Zerlegung einiger Gesteine von dem Fundorte der Diamanten, | und | aus einer ihm ähnlichen Gegend im Gouvernement Olonez, | von | Dr.F.Göbel. | [double rule] | Riga, | gedruckt bei Wilhelm Ferdinand Häcker. | 1830.

4°: 26 p, centersewn, heavy plain wrap. 25.7 x 20.5 cm(10 1/8 x 8 1/8 in). Uncut. BM(NH).

Cont: tp; press note; dedic; text tp to first part; text to p i6; text tp; text.

In the first part, Engelhardt compares the predominant underlying rocks of the Uralian diamondiferous alluvial areas to those of Brazil where alluvial diamonds are also found, noting similarities and differences in the constituent rock-forming minerals, the presence of veins, and other features, as well as the forms of the respective diamond crystals, in an attempt to establish common similarities and a possible origin for diamond in both regions. The second part describes specific occurrences, the local rocks, and analyses of same. Very rare.

1901. -----1831 O mestorozhdenii almazov v khrebet Uralskom. *Gornye Zhurnal*, St.Petersburg, vol 2, 1831, 0 366-87. Not seen. A E Fersman, coll works.

1902. ENGLISHWOMAN'S DOMESTIC MAGAZINE, London Concerning Precious Stones, London, 1851, anonymous series of articles as follow: Ch I Historic survey, p 201-4; II Cutting of gems, 204-7; III Diamonds and their properties, 253-6; IV Historic diamonds, 257-61; V Rubies and sapphires, 85-8; VI Emeralds, 89-92; VII Topazes and garnets, 128-32; VIII Opaque gems, 132- 36; IX Quartz, 173-75; X Onyxes, 176-9; XI Cameos and intaglios, 228- 31; XII Agates, 231-3; XIII Opals, 252-9; XIV The story of the diamond necklace, 15-23; XV The jeweller's art, 64-70. JSL.

ENGMAN, M , see FABERGÉ

1903. d'ENTRECOLLES, F X Manière de faire des perles artificielles. Lettre à Pekin, 4 Nov. 1734. *Lettres édifiantes et curieuses écrites des Missions Etrangère*, Paris, vol 22, 1736, p 425-37. Not seen; from Kunz & Stevenson *Book of the Pearl* bibliogr.

ENTZELT, or ENCELIUS, EINZELD, ENZELIUS, ENTZELIUS, CHRISTOPH(1517-1583)

Ger pastor, geologist, author; b Saalfeld; educ U Wittenberg; rector at Tangermünde and pastor at Osterhausen; friend of Luther and Agricola; said to have been a doctor of medicine but this is doubtful; the present work attempts to record all worth knowing about medicinal virtues ascribed to metals, stones, gems, salts, and other mineral substances. Ferguson, *Bibliotheca Chemica*, 1, 240, biogr notes.

1904. -----1551

De Re | Metalli- | Ca, Hoc Est, De Origine, | Varietate, & Natura Corporum | Metallicorum, Lapidum, Gemmarum, atq$_3$; alia- | rum, quae ex fodinis eruuntur, rerum, ad | Medicinae usum deseruientium, | Libri III. | Autore | Christophoro | Encelio Salueldensi. | Cum priuilegio Imper. | [woodcut logo] | Franc. Apud Chr. Egenolphium. [Frankfurt, 1551]

8°: [14], 271, [1 blanklp; orn inits; fold tabs; 5 woodcuts of fossils. Ferguson, *Bibl Chem*, 1, 240, gives: "8°. Pp. [13, 1 blank], 1 leaf wanting, 271, [3 blank]. Five woodcuts. The pagination is irregular... in F there are two extra double leaves, but that in G is wanting. H is complete. This edition is undated, but is probably that of of 1551." Ward & Carozzi, 751. Agassiz II, 346; Böhmer IV, 1, 19.

Cont: tp; dedic(dtd 1551); tab cont; 3 bks; blank p. This collation taken from a xerographic copy in BM(NH); Ferguson's collation should be taken.

Book 3, p 156-271, is on stones, gemstones, and other products of the earth, and begins with "fluors," then passes into "saxis," corals, the Phrygian stone, the "asio" stone, hematite, schisto, magnes, jet, Thracian stone, and includes amber, crystal, fossils, turquoise, bezoars, and at the end of the book provides descriptions of the valuable gemstones customarily employed in jewelry. A rare work.

Ferguson, ibid, gives an account of Entzelt's life and work and considers the above undated edition to be the first, noting that "the book was included in the *Corpus juris et systema rerum metallicarum*, Frankfurt, 1698," and called by Beckmann "a wretched German translation."

1905. -----1557, 2nd edit

De Re | Metalli- |...| Cum privilegio Imp. | [woodcut orn, noted by Ferguson to differ from first edit] | Franc. Apud Haered. Chri- | stiani Egenolphi. | [rule] | M.D.LVII.

8°: [16], 271,[3 blank]p; a^8,A-R^8; 3 fold tabs between p 91-101 and includ in pag but irregularly so because of being given single page nos; 5 text woodcuts; orn inits. 16.2 x 9.8 cm(6 3/8 x 3 3/4 in). Cropped. USGS Kunz Coll, GS 34-410. Ferguson, ibid, gives a^8, A-E in eights, F8 with two extra double leaves, C8 with an extra fold leaf, H8, but 4 & 5 are in one, I-Q in eights, R7, last leaf blank(?), wanting in his copy.

Cont: tp; a missing f(?); index; text; 3 blank p. Ferguson notes that the missing leaf, a2, of the first edit "contains Melanchthon's letter to Eganolphus, dated 1551;" this letter, however, was present in the second edit examined by him.

Liber Tertius, p 156-271, containing the 5 text cuts, is the usual conglomeration of contemporary fact and fancy on all kinds of stones as previously mentioned. Devoting several pages to this work, Thorndike, *History of Magic*, 6, p 308-10, notes that while Entzelt acknowledges his debt to Agricola, he cites older authorities far more often, perhaps because his interests lay

in the medicinal rather than the metallurgical properties of the substances examined, and gives examples of uncritical inclusion of fanciful matter taken from older authorities and dismisses the importance of the work by saying that it does not" manifest any real advance over the work of Lunardi [Leonardus Camillus] a half century before, either in accretion of new information, facts and correct scientific detail, or in the rejection of superstitious tradition and occult notions."

EPIPHANIUS, or EPIPHANIOS of Salminius(ca 315-402)

B Palestine; ardent scholar, versed in many languages, active in affairs of the early Christian church; abbot of monastery of Eleutheropolis nr Jerusalem; from 367 bishop of Salamina in Cyprus, where he died.

1906. -----1565

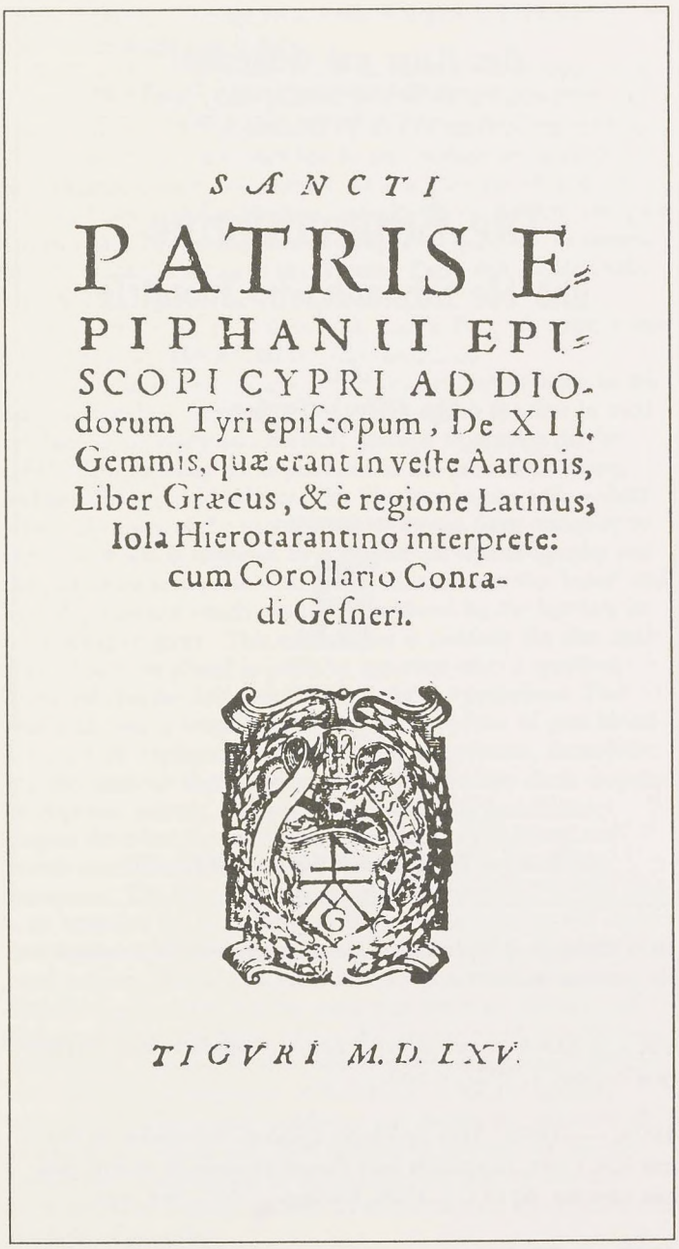
Sancti | Patris E= | Piphanii Epi= | Scopi Cypri Ad Dio- | dorum Tyri episcopum, De XII. | Gemmis, quae erant in veste Aaronis, | Liber Graecus, & e regione Latinus, | Iola Hierotarantino interprete: | cum Corollario Conra- | di Gesneri. | [Gesner's logo] | Tigvri M.D.LXV. [Zurich, 1565]

8°: [4], 28 f; (α)-$(\delta)^8$. 16.3 x 9.8 cm(6 3/8 x 3 7/8 in). Cropped. Woodcut inits, orns, JSL,

Cont: tp; dedic; brief note on biblical source; text in Greek verso, Latin transl recto; comment by Gesner showing position of gems on the High Priest's breastplate; blank p.

This work is on the twelve gemstones in the breastplate of Aaron, the High Priest of the Jews, traditional founder of the Jewish priesthood, and it apparently is the first printed work to treat this subject. See Blake and De Vis below for early history of manuscript versions. This work is part of Conrad Gesner's compilation of numerous works by various authors entitled *De omne rerum Fossilium*, 1565, which see. It was also issued separately, and copies sometimes appear upon the antiquarian book market. Epiphanius's work is in the form of a letter to his friend, Diodorus, Bishop of Tyre, and concerns the twelve stones set in the breastplate (Exodus 28, 17-20), which are, in order: sard, topaz, emerald, carbuncle, sapphire, jasper, lyncurius, agate, amethyst, chrysolite, beryl and onyx. A short treatise on the diamond in connection with Biblical mentions of this gem is included. Following this part appears a discussion of the twelve stones, with a diagram of their positions by Gesner. Because of its antiquity,and authority, this work has always assumed enormous importance among scholars as will be evident from its frequently issued versions and commentaries. However, according to Blake and De Vis, the above version is only an epitome of a much fuller work, noting (p XIV), that "the Greek text of the document has been lost" and "what survives comprises two parallel epitomes of the section devoted to the description of the stones." The author of this epitome is unknown. Blake and De Vis also describe a second epitome, p XIV-XV, authored by a certain Anastasius Sinaïta, and give places where such was subsequently published: by J Gretser, Ingolstadt 1617, and reprinted in Migne, PG. vol 79, cols 311 ff.

C W King, *Natural History of Precious Stones*, 1867, believed the work to have been composed ca 400 AD(p 8), and stated "in this compilation, the worthy prelate appears, occasionally, to be referring to some valuable sources then accessible; but most provokingly he either makes use of them from memory, or else transcribes without understanding their meaning; the latter the most probable explanation," and further, "in his attempt to condense his originals, his notices are become full of the most palpable blunders, and of confusion between one species and another."


SANCTI
PATRIS E=
PIPHANII EPI=
SCOPI CYPRI AD DIO-
dorum Tyri epiſcopum, De XII.
Gemmis, quæ erant in veſte Aaronis,
Liber Græcus, & è regione Latinus,
Iola Hierotarantino interprete:
cum Corollario Conra-
di Geſneri.

TIGVRI M. D. LXV.

1906. Separate part titlepage for Epiphanius' treatise on the twelve stones of the High Priest's breastplate incorporated in Gesner's "De omne rerum"

The US Geological Survey Library, Reston, Virginia, possesses an undated but modern translation of the Gesner version entitled "The Greek Book of the Holy Father Epiphanius... to Diodorus, Bishop of Tyre, on the twelve gems which were on the robe of Aaron, with a translation in the Latin of the country, by Iola Hierotarantinus. With a corollary by Conrad Gesner," 38 leaves, 32 cm.

1907. -----1622, Opera omnia, Greek & Latin edit, by D.Petavius, 2 vols, folio, Paris, 1622; the text of the lapidary in

Aus Natur und Geisteswelt
Sammlung wissenschaftlich-gemeinverständlicher Darstellungen
376. Bändchen

Die Schmucksteine
und die Schmuckstein-Industrie

Von

Dr. Alfred Eppler

Mit 64 Abbildungen



Druck und Verlag von B. G. Teubner in Leipzig 1912

1916. Titlepage of Eppler's small treatise on ornamental gemstones and the gemstone industry

Vol 1, p 333-4, according to G Sarton, *Introduction to the History of Science*, 1, 1927, p 362.

1908. -----1698 Divi Epiphanii Episcopi Salaminiae de Gemmis XII. Liber, appendicis loco dissertationibus de iisdem gemmis adjectus. By G C L Nürt. Tübingae, 1698. Not seen.

1909. -----1743

S.Epiphani | Salaminis in Cypro Episcopi | De XII. Gemmis Rationalis | summi Sacerdotis Hebraeorum | Liber Ad Diodorum | Prodit nunc primo ex antiqua versione Latina | Opera Et Studio | P.Franc.Fogginii | Qui & Notas adjecit | [rect engrav vignette of High Priest] | Romae, Typis Zempellianis AN. MDCCXLIII. | [rule] | Praesidum Adprobatione. [title in red & black; 1743]

4°: xxxvi, 84, [2]p; a-c^4, d^6, A-K^4, L^2 + [1]f supplied; orn init; 2 text engrv. 23 x 17 cm(9 1/8 x 6 5/8 in). Uncut. USGS Kunz Coll, GS 43-210.

Cont: 1/2tp; tp; dedic; pref; text; index; notes.

Dedicated to Pope Benedict XIV(1675-1758); preface reviews all previous editions; abundantly footnoted by Pietro Francesco Foggini(1713-1783).

1910.-----1858

S.P.N.Epiphanii | Constantiae In Cypro Episcopi | Opera Quae Reperiri Potuerunt Omnia. | Dionysius Petavius Aurelianensis, | Societatis Jesu Theologus, | Ex Veteribus Libris Recensuit, Latine Vertit Et Animadversionibus Illustravit. | (Paris. MDCXXII; Colon.[Lipsiae] MDCLXXXII.) | Accurante Et Denuo Recognoscente J.-P.Migne, | Bibliothecae Cleri universae, | Sive | Cursuum Completorum In Singulos Scientiae Ecclesiasticae Ramos Editore. | [rule] | Tomus Primus[-Tertius]. | [rule] | Veneunt Tria Volumina 25 Francis Gallicis. | [rule] | Excudebatur Et Venit Apud J.-P.Migne Editorem, | In Via Dicta D'Amboise, Prope Portam Lutetiae Pariorum Vulgo D'Enfer Nominatam, | Seu Petit-Montrouge. | [rule] | 1858[-64]

At head of title: "Saeculum V. |... [4 lines, Greek title]... | [rule] "

8°: I: [2], XIV p + double-columns [2], 11-1200; II: [2]p + double cols [2], 11-1128; III: [2]p + double cols [2], 11-1332. 27.4 x 17.5 cm(10 3/4 x 6 7/8 in). Cropped. JSL.

Double-columning permits parallel texts in Greek & Latin in many portions of this edition of the collected works of Epiphanius, among them being the treatise on the breastplate stones, which appears in vol 3, cols 293-372; this vol dated 1864. The section titles are in Greek & Latin, only the Latin given as follows:

S.P.N. Epiphanii Episcopi Cypri | Ad Diodorum Tyri Episcopi | De Duodecim Gemmis Quae Erant In Veste Aaronis Liber. | Iola Ierotarantino interprete.

Left is the Greek, on the right, the Latin translation, cols 293-304, followed by the Latin version of Foggini(see above), cols 305-372. The Greek epitomes above, are translated, with extended comments, by P.G. Maxwell-Stuart in his "Epiphanius On Gemstones," *J Gemm*, 15, 8, 1977,435-44.

1911. -----1862 Epiphanius: De XII gemmis rationalis summi sacerdotis hebraeorum liber. In: *Epiphani episcopi Constantiae opera*, edited by G Dindorf, Leipzig, 1862, vol 4, p 141-224. However, Blake, 1934, p xxvi, gives 1861 as the date, and that the treatise appears in vol 4, 1, p 169-223. Not seen.

1912. -----1898 Epiphanius: De XII Gemmis. Herausgegeben von Otto Günther, in *Epistulae imperatorum pontificum aliorum*, Pars II, Corpus scriptorum ecclesiasticorum Latinorum, 35, 2, 1898, p 743-73. Prag-Wien-Leipzig.Not seen.

1913. -----1898 Epiphanius, De Gemmis: Dragocennye Kamni ix nazwanija i swojstwa [Die Edelsteine, ihre Bennenugen und Eigenschaften]. Herausgegeben und Ubersetzt nach einer georgischen Handschrift des 10.Jahrhunderts und erläutet von M.G.Dschanaschwili. Sbornik materialow dlja opisanija mestnostej i plemen Kawkaza, *Tifliser Jahrbuch*, 24, Tiflis, Georgia, 1898. Not seen. Mier, 541.

1914. -----1930 Robert Blechsteiner: Die georgische Übersetzung von Epiphanius Edelsteinbuch. *Jahrbuch der österreichischen Leo-Gesellschaft*, Wien,1930, p 233-270. Not seen: Chr Mier 524.

1915. -----1934

Epiphanius De Gemmis | The Old Georgian Version and the | Fragments of the Armenian Version | By | Robert F.Blake,

Ph.D. | And | The Coptic-Sahidic Fragments | By | Henri De Vis | London: Christophers | 22 Berners Street, W.1 | Cape-town Melbourne Sydney Wellington Toronto [1934]

"Studies And Documents edited by Kirsopp Lake, Litt.D. and Silva Lake, M.A. II."

8°: [2]f supplied + CXXIII, [1 blank], 335, [1 blank], [52], [1 blank] p. Gray-green stiff paper wrap, title on cover & spine. 24.2 x 16.1 cm(9 1/2 x 6 3/8 in). Fe part uncut. Paper badly browned, brittle. JSL.

Cont: ser tp; committee names; tp; publ data; dedic; pref; tab Epiphanius biogr; the tractate; versions other than in Georgian; Georgian text; transl of same; sources used; texts & transl; blank p.

Detailed, thorough, scholarly translation into English from an early Georgian MS. It is not an epitome and is therefore far fuller and a much more valuable reference than the shorter versions previously described. P III: "in the present volume is printed for the first time an almost complete text of the last learned production of that widely-read but inaccurate luminary of the church, Epiphanius of Salamis; for the Latin version of his treatise... from which knowledge of it has hitherto been derived, contains barely one half of the original document." While much of Blake & De Vis concerns itself with philological problems encountered during translation, useful comments are made upon the gemstones themselves, their probable modern identities (always a vexing problem with very old texts!), and the correlations which may be made between such identities and those given by writers previous to Epiphanius as well as those who came later and used his treatise as a basis for additional dissertations on Biblical gemstones. For an extended and useful analysis of the Epiphanius's treatise, based on the above edition, see K W Wirbelauer, *Antike Lapidarien*, 1937.

1916. EPPLER, ALFRED(1867-1923)

Aus Natur und Geisteswelt | Sammlung wissenschaftlich= gemeinverstandlicher Darstellungen | [double rule] | 376. Bändchen | Die Schmucksteine | und die Schmuckstein= Industrie | Von | Dr. Alfred Eppler | Mit 64 Abbildungen | [logo] | Druck und Verlag von B.G.Teubner in Leipzig 1912

8°: IV, 83, [1], [16 advert]p; 64 fig(mainly photos). Pale brown cloth, title in orn frame on cover; spine lett; adverts on tan endp, the back cover pastedown with small affixed col pl. Also printed wrap, not seen. 8 x 12.2 cm(7 1/8 x 4 7/8 in). Cut. Mk 1 paper; 1.25 cloth. LC 13-7. JSL.

Cont: tp; tab cont & publ data; fwd; 5 pts; appends; press note; index.

An excellent popular treatise on gemstones in general and displaying Eppler's talent for giving readers an accurate yet easily understandable text in his first major gemological work. Topics are history of gems, nomenclature, properties, gemstone deposits, mining, principal species & varieties described, coral & pearl, history & current status of the gem-cutting industry in Idar-Oberstein, Germany, with emphasis on agate-cutting and uses of ornamental stones.

1917. -----1912

Gewerbliche Materialkunde | Im Auftrag Des Deutschen Werkbunds Herausgegeben | Von Dr.Paul Krais | [rule] | Zweiter Band | Die Schmuck- und Edelsteine | Von Dr.A.Eppler | Mit 4 Farbigen Tafeln Und | Über 220 Illustrationen | [logo] | Verlag Felix Krais Stuttgart | 1912 [title enclosed in single-rule frame]

8°: X, 464 p + 4 bound-in col pls on stiff white paper, each with transp overlay tissue printed with pl no & outlines of cut gems with nos, each pl prefaced by an f of explanation; 223 fig. Pale brown wrap, dk brown lett & gem outline on cover & spine(framed); back cover advert. 23.5 x 15.6 cm (9 1/4 x 6 1/8 in). Uncut. Also in pale tan unfin cloth, similar lett, etc, pale brown endp. 22.3 x 14.9 cm(8 7/8 x 5 7/8 in). Cut. Te stained brown. Stapled sections in this version. Paper Mk 12.50, cloth, Mk 14. JSL.

Cont: ser tp; tp; publ data; fwd; author fwd; tab cont; 9 chs; 2 tabs; biblio(p 454-8, 100 entries); index; pls.

There is an enormous amount of practical information in this truly outstanding work; it can be said that it is the first in modern time to seriously and candidly attempt to divulge the "secrets" of the lapidary art as practised at the time in Germany, and specifically, in Idar-Oberstein. The text begins with a short historical survey of the use of precious stones from antiquity to the present and is followed by a chapter on crystallography and the properties of crystals with many references to the "inner" and "outer" properties which must be considered by the lapidary in the cutting of gems. This information is certainly the first time that it has been placed in print by someone who is qualified. The third chapter describes falsifications and imitations. The fourth chapter is lengthy, taking up the problems of gem identification with explanations of principles, instruments, accessories, and the methods that must be used. Next are two short chapters on deposits, mining, and gemstone trade. The penultimate chapter describes the modern German lapidary industry and reveals numerous details of the methods used in fashioning gemstones. The last chapter is on styles of cutting. The first table is an extended list of gemstone names in one column, the correct modern names in a central column, and remarks in the right hand column. The second table lists the gemstones and their distinctive properties. For the most part the text drawings are high quality, several being of genuine artistic merit, but the four color plates, supplied by the publisher, are rather poor reproductions of color photographs. A "landmark" book for lapidary technique. Unfortunately published just before the outbreak of World War I, which may have resulted in striking off very few copies, thus contributing to its scarcity and the fact that this work is almost entirely ignored by reviewers and other writers in the field of gemology.

1918. -----1934, 2nd edit by W F EPPLER

Edelsteine | Und Schmucksteine | von | Dr.Alfred Eppler† | Zweite, vollständig neu bearbeitete Auflage | mit ausführlichen Angaben über die natur- | lichen und gezüchteten Perlen, über die Edel- | stein-industrie und den Edelstein-Handel | von | Dr.W.Fr.Eppler | Mit 4 Farbigen Tafeln und | über 300 Text-abbildungen | [logo] | Verlag Von Wilhelm Diebener G.M.B.H. In Leipzig | 1934

8°: 559, [1] blank]p(p 555-59 adverts); col glossy front pl tip-in + 3 others, tip-ins; 317 fig. Mottled, pale blue unfin cloth, blue vertical rules on cover with black lett & logo; blue spine rules with pale blue cloth label pasted on. 24.2 x 17 cm(9 1/2 x 6 3/4 in). Cut. Te stained brown. Mk 22.50. JSL. 2nd printing: similar cloth, but spine label white; front cover with one broad & 3 narrow vertical rules. JSL. LC 34-41249.

Cont: pl; tp; publ data; author fwds; tab cont & indexes; 9 parts; index; advert; blank p.

Completely rewritten by Alfred Eppler's son, with much new material, and bringing the work up to date. In effect, it is now a new work. The quality of binding and paper is improved. The rather poor color plates are replaced by a similar set of color plates after original watercolor paintings by Walter Wild of Idar-Oberstein which are much superior in terms of realism and coloration. Despite its age, this book is still eagerly sought and copies are difficult to obtain. Rev E H Kraus, *Amer Min*, 20, 5, 1935, 401-2, "the colored plates... are very beautiful and, in fact, the best of the kind the reviewer has ever seen." B W Anderson, *The Gemm*, 4, 38, 1934, 54-6, "with the exception of the monumental "Bauer," this new edition... is the largest work of its kind yet published... an important and welcome addition to the gemmologist's library."

1919. -----1917

Der Diamant | im deutschen Gewerbe | und auf dem Weltmarkt | von | Dr.Alfred Eppler | mit | zahlreichen Abbildungen | nach Zeichnungen von | Ferdinand Eppler | Verlag von Gustav Hohns. | Crefeld 1917.

8°: 84 p; 67 fig(drawings of unusual artistic merit!). Pale gray cloth, white lett on cover & spine. Dk gray charcoal-type endp. 21.6 x 15.6 cm (8 1/2 x 6 1/8 in). Cut. TE stained pale gray. JSL.

Cont: tp; ackn & publ data; tab cont; 10 chs; concl.

On the usefulness of the diamond in German industry and commerce, its properties, occurrences and mining, types of diamonds, suitability for specific industrial applications, history of the development of diamond cutting, establishment of the diamond cutting industry in Germany, how diamonds are cut, boring through diamond crystals, wire-dies, rough crystals in tool points, in drills, and uses of powders. By far most emphasis laid on industrial diamond. The conclusion expresses the hope that the former German colony of South West Africa will be returned to Germany after the conclusion of World War I to avoid dependance on the British diamond monopoly. See an "enlargement" of this treatise by W F Eppler below, 1933. Scarce.

EPPLER, WILHELM FRIEDRICH(1902-1982)

Ger mineralogist, gemologist, son of foregoing; b Detmold; stud Univ Bonn, Hamburg; PhD U Hamburg 1926; var positions in mineralogy depts of universities to 1927; extended studies gem deposits Ceylon, Far East, India, Afghanistan 1927-31; 1935-41 directed gem trade school Idar-Oberstein; grad U Bonn 1938; instructor U Strassburg 1942-5; 1946 to industry, esp synthetic stone mfr; 1955 Hon Prof Mineralogy U München. obit *J Gemm*, 18, 5, 1983,p 446.

1920. -----1926

Ueber das optische Verhalten, die Dichte | und Zustandsänderungen des Zirkon. | [rule] | Dissertation | zur | Erlangung der Doktorwürde | der | Mathematisch-Naturwissenschaftlichen Fakultät | der Hamburgischen Universität | vorgelegt von | Wilhelm Friedrich Eppler | aus Krefeld | [orn rule] | Hamburg 1926.

"Separat-Abdruck aus dem Neuen Jahrbuch für Mineralogie. etc., Beil.- Bd. LV, Abt.A. Stuttgart... 1927."

8°: [3], [1 blank]p + p 401-87 + [1 blank], [1], [1 blank]p; 8 text fig; large fold pls with figs 9-12; many tabs. Self wrap. 22.2 x14.5 cm (8 3/4 x 5 5/8 in). Cropped. JSL. USGS Kunz Coll, GS 34-769.

Cont: tp; publ data; dedic; 9 chs; blank p; fold ols; vita; blank p.

Landmark paper on optical properties, density, and color changes brought about by controlled heating experiments coupled with radiations from radium and from sunlight.

1921. -----1933

Der Diamant | und seine Bearbeitung | Herausgegeben von der | Deutschen Goldschmiede-Zeitung | Bearbeitet und ergänzt | von | Dr.W.Fr.Eppler | Mit über 223 Abbildungen | und 5 Tafeln | [logo] | Leipzig | Verlag von Wilhelm Diebener G.m.b.H. [1933]

8°: 168 p(adverts p 164-8); 223 figs(mainly drawings); 5 "plates" are fullp drawings of gem cut in various styles on p 51-5. Pale blue, unfin cloth, dk brown title on cover & spine. Mottled, greenish-blue endp. 24.2 x 17 cm(9 1/2 x 6 3/4 in). Cut. Te stained red-brown. RM 10.75. JSL.

Cont: tp; publ, data; fwd; tab cont; 7 chs; index; advert.

While based upon his father's earlier work on diamond of 1917, the present treatise bears little resemblance in content because its coverage of the subject is more comprehensive and complete and does not emphasize industrial diamond at the expense of other aspects. There is a historical review of the progress of lapidary technique from antiquity to the present, remarks on the general physical & optical properties of gemstones, including considerable information on crystallography, then remarks on the theoretical aspects of diamond cutting procedure, various types of rough diamond, major diamond cutting centers, and specially meritorious, a final chapter on ideal cut forms for other gemstones. This last chapter deserves a few extra remarks because in it, Eppler proposes proportions for facet cut gems that are grossly at variance from those generally accepted in commercial cutting. In a nutshell, these Eppler cuts propose a much deeper crown and less depth in the pavilion, but the result would be a stone that seems "top heavy;" his cuts were never adopted. A valuable work, still of great reference value.

1922. -----1938 Die Brillanz durchsichtiger Edelsteine. *Fortschritte der Min*, etc, Bd 33, 1938, sep, 40 p, 18 fig, 21 tabs. JSL. Reviews previous work on theoretical establishment of best cutting angles for faceted gems, all gem properties being considered, provides a long list of angles for gemstones according to refractive index group. Figures show "ideal" cut cross-sections recommended by the author, which as mentioned in the foregoing entry, were never adopted.

1923. -----1958 Notes on asterism in corundum, rose quartz and almandine garnet and chatoyancy in beryl. *J Gemm*, 6, 5, 1958, 195-212, 21 fig, 10 ref; also Notes on asterism in spinel and chatoyancy in chrysoberyl, quartz, tourmaline, zircon and scapolite. Ibid, 6, 251-63, 26 fig, 5 ref.

1924. -----1958 Synthetischer Smaragd. Übersicht über die 3 bisher bekannten Smaragdsynthesen: von Prof. Nacken, den Igmerald und die Steine von Chatham. *Deutsche Goldschmiede-Zeitung*, Bd 56, 1958, [in 4 parts], Nr 4, 193-7, 16 photos; 5, 249-51, 14 photos; 6, 327-9, 15 photos; 7, 381-5, 18 photos. Examined microscopically specimens of Nacken, I.G.Farbenindustrie "Igmerald," and Chatham emerald to identify inclusions as shown enlarged upon the many photographs; conclusion:

they are characteristic and can be used with confidence to identify these synthetics.

1925. -----1959 The origin of healing fissures in gemstones. *J Gemm*, 7,2, 1959, 40-66, 45 fig, 5 ref.

1926. -----1973

Praktische Gemmologie | Von | Dr.W.F.Eppler | Honorarprofessor für Mineralogie | an der Universität München | Erste Auflage | Über 450 Abbildungen und mehrere Tabellen im Text | [logo] | Stuttgart 1973 | [rule] | Rühle-Diebener Verlag KG, Stuttgart-Degerloch

8°: [9], [1 blank], 410 p; front photo illust + 414 text fig. Pale tan unfin cloth, blue title on cover & spine; col dj, resume, vita, portr. 23.8 x 15.7 cm(9 3/8 x 6 1/4 in). Cut. DM 132. In plain slipcase. JSL.

Cont: 1/2tp; ill; tp; publ data; fwd; tab cont; abbrev; text; append;index.

The most important and comprehensive treatise on practical gemology published in Germany. It was meant as an aid in identification and therefore omitted any discussion of theory, and confined itself to scientific descriptions of gemstones, properties, and particularly the features of each that were distinctive if not unique. The text begins with diamond, passes through the important gemstones, thence to those of lesser importance or increasing rarity, and ends with organic materials. Each discussion is by no means devoid of valuable ancillary information as for example in the long section on diamond, p 1-61, almost a monograph worthy of publication by itself, we find the following topics considered: nomenclature, chemistry, crystallization, properties, X-ray results, cell & crystal forms, cleavage, properties of diamond as compared to properties of stones likely to be confused with it, types of diamond, identification procedures, inclusions (a strong feature the author being especially noted for his studies of gem inclusions), qualities, grading schemes, diamond and its deposits, recovery and process- ing, etc. This scheme of presentation is more or less followed for other gemstones, but to a lesser extent. In effect, the work is an encyclopedia leavened throughout with practical advice to the gemological student. A major feature is the use of very many inclusion photographs. Organic materials treated are amber, jet, coral, operculum, pearl, but not horn or ivory. Appendix entries are a glossary, property tables, pleochroic colors, and drawings of absorption spectra. Strangely, there is no bibliography. Rev *J Gemm*, 14, 4, 1974, p 193-4; *Austral Gemm*, 12, 1, 1974, 20.

1927. -----1984. 2nd edit Stuttgart: Rühle-Diebener Verlag, 1984, Xl 504 p, ill. DM 158. Not seen. Rev *J Gemm*, 20, 1, 1986, 57-8.

EPPLER, W F, see ANDERSON, B W, 1955; AUFSCHLUSS, DER; STUTZER, O

EPSTEIN, EDWARD JAY(1935-)

Writer, educator; PhD Harvard U; taught polit sci Harvard, M.I,T, etc; articles for New York magazines on political subjects.

1928. -----1982

The Rise and Fall | of Diamonds | [orns] | The Shattering Of A Brilliant | Illusion | [orn] | by Edward Jay Epstein | Simon And Schuster. New York

Cementb: 301, [3 blank]p; two-tone hardcover, spine unfin red cloth gilt, boards covered by pale gray-blue paper; white dj, portr, resume, vita. 21.4 x 14 cm(8 3/8 x 5 1/2 in). Cut. $14.50, LC 82-660; ISBN 0-671-4189-2. JSL

Cont: logo, author bks; tp; publ data; dedic; ackn; tab cont; prologue; 23 chs; notes; index; 3 blank p.

Carefully researched and interestingly written book presenting a factual account of today's diamond industry, from mine to finished product, and taking into account the now substantial production of synthetic diamonds. Epstein claims that the De Beers Syndicate is losing control of the diamond market and that sometime in the 1980's its control & cartelization will collapse and diamonds, like other commodities, will rise and fall in price beyond the control of any single person or organization. The first part of the text describes the author's background visits to De Beers agencies and mines South Africa, and includes remarks on diamond origin and forms, how they are mined and extracted, and other matters in the "field" portion of the industry. The second part takes the diamonds through the selling stages into the hands of the cutters, with much material included on famous persons connected with the industry as Rhodes, the Oppenheimers, and others, the politics of the cartel, role of advertising to maintain demand, and, as cynically pointed out, to sustain the illusion that diamonds always retain their value. The third part treats smuggling, illicit or uncontrolled production, and other problems that De Beers solved. The last part discusses investment value of diamonds and reiterates the author's conviction that control has been lost and that the huge quantity of stock diamonds, or "overhang," and cut diamonds, in the hands of private individuals or in the cartel, will avalanche into the market as control is lost and create a disastrous devaluation. The large section of notes is valuable and worthy reading for it is here that Epstein tells of his sources of information. See interview in *Book Digest*, 9, 6, Jun 1982, 15-9, 22-4; rev: *Savvy*, Nov 1982, 33; rev by Charles L Wells, Jr, *Jewelers' Circ-Keystone*, Jul 1982, 242 "in summary, this book is a scathing indictment... despite the fact that it is an unwarranted and vindictive "hatchet job," this is an important book." As of 1989, the diamond market as regulated by De Beers sails serenely on its course. Also rev *JCK*, Jan 1982, p 80-1;INDIAQUA, no 33, 1982, 3, 143-9.

1929. -----1982, London

Edward Jay Epstein | The Diamond | Invention | Hutchinson | London Melbourne Sydney Auckland Johannesburg [1982]

Cementb: 270, [2 blank]p; black cloth-like paper over bds; gilt spine title; black dj with resume. 21.5 x 13.5 cm(8 1/2 x 5 1/4 in). Cut. ISBN 0 09 147690 9. £ 7.95. JSL.

Cont: 1/2tp; other author bks; tp; publ data & ackn; tab cont; prolog; 23 chs; epilog; end notes; index; blank f.

Entirely reset in smaller type; minor changes in text, and at least one substantial change on p 59 where the "sixth rule" of p 63-5 in the original now omitted; epilogue added; changes in index.

1930. -----1983, another London edit. The death of the diamond. Sphere Books, London, 1983, 270 p; £1.95. Presumably paperback. Not seen: rev *J Gemm*, 19, 1, 1984, 70.

1931. ERBSTEIN, JULIUS(1838-1907) & ERBSTEIN, ALBERT(1840-1890)

Das | Königliche | Grüne Gewölbe | Zu Dresden | [coat-of-arms] | Beschrieben | Von | Julius Und Albert Erbstein, |

Doctoren Des Rechte, Directoren Des K.Grünen Gewölbes | Und Des K.Münzcabinets.| [[wavy rule] | Mit Abbildungen. | [orn rule] | Dresden 1884. | Officin Von Wilhelm Baensch.

8°: XIX, [1 blank], 212 p; 9 text ill. V pale green paper over bds; title on cover in orn frame; copyright back cover. 18 x 11.5 cm(7 1/8 x 4 1/2 in) " Cut. USGS Kunz Coll, GS 33-326.

Cont: tp; publ data; introd; descript by room.

The stupendous collections of ornamental objects in the Green Vaults of the Royal Palace (Saxony) in Dresden, are here described in eight rooms or salons, preceded by a brief history of the collections and their collectors. Aside from the first, or "Bronze" room, all the others are of interest to the gemologist, jeweler, and collector of gemstones. These contain a wealth of ivory carvings, mosaics, including Italian pietre dure, carvings in stone, basins, ewers, jewels, crown jewels, badges, orders, and a bewildering variety of royalty-exchanged or presented knick-knacks. The illustrations are of the more important pieces and are the same as in Landsberg's catalog of 1853, which see. A second edition issued but not seen.

1932. -----1889, Engl edit

The Guide | To The | Regal Green Vaults | At | Dresden. | [arms] | Copyright Reserved. | Dresden. | Wilhelm Baensch, Printer. | 1889.

8°: [1 blank], [1], 88, [2 blank]p; the first and last f are used as paste-downs, the first with lett verso, the last blank; 13 text woodcuts. Dull green paper over bds; title in frame on cover. 18 x 11.8 cm(7 1/8 x 4 5/8 in). Cut. JSL.

Cont: visitor directions; tp; introd; 8 chs; blank f.

"The German Catalogue... beschrieben von Julius und Albert Erbstein... of a far more voluminous character, than the English "Epitome," is intended for close study."(p 5).

1933. -----1899, 2nd Ger edit; co-author Albert dropped

Das |...| [arms] | Eine Auswahl Der Wichtigsten Nummern | In Der Reihenfolge Der Standorte, Zusammengestellt Nach | Der Umordnung Der Sammlung Von 1892 | Vom Director Derselben, | Dr.Julius Erbstein, | Königl.Sächs. Geheimen Hofrath. | [rule] | Mit Zwei Abbildungen. | [rule] | Dritte Auflage. | [orn rule] | Dresden 1899. | Wilhelm Baensch Buchdruckerei.

8°: [1 blank], [2], [1 blank], 59, [1]p.; woodcut front pl; woodcut text tailpc. Dull green wrap, cover title; plan of mus back cover. 18.2 x 11.7 cm(7 1/8 x 4 5/8 in). Cut. LC 5-18651. JSL.

Cont: blank p; pl; tp; blank p; 8 chs; ill.

1934. -----1906, 4th edit

Das |...| Vom Direktor Derselben, | Dr.Jur.Julius Erbstein, |... | Vierte Auflage. | [orn rule] | Dresden 1906. | Wilhelm Baensch Buchdruckerei.

8°: stapled sections, [1 blank], [2], [1 blank], 59, [1] p; front pl faces tp; wood engrav tailpc; mus plan back cover. Pale green print wrap. 10.1 x 11.6 cm(7 1/8 x 4 5/8 in). Cut. Same.

1935. ERDMANN, EDVARD

Om Ädelstenar | Och | Andra Mineraliska Ämnen | Använda Till | Smycken Och Prynadsföremål M.M. | Af | Edvard Erdmann | [rule] | Med 3 Taflor | [rule] | Aftryck Ur Geol. Fören. I Stockholm Förhandl. Bd.21, H.5 1899. | [orn rule] | Stockholm | Kungl. Boktryckeriet. P.A.Norstedt & Soner | 1899

Separate: *Geologisk Förening I Stockholm Förhandlingar*, vol 21, no 5, 1899, p 416-508, Pls 17-19.

8°: [1], [1 blank], [1], [1 blank], 96 p; 5 photos on 3 bound-in glossy f; 12 fig. Sepia cloth, gold title & rules on spine. 21.6 x 13.9 cm(8 1/2 x 5 1/2 in). First [2]f (conjugate) tipped-in. Cut. Parallel paginations. Kr 1.50. JSL.

Cont: tp; tab cont; text; append; index; pls.

Elementary, general treatment of gemstones: properties, remarks on cutting styles, with text figures, descriptions of gemstones, and including jet, amber, and pearl, but also some oddities as Silurian fossil coral from Gotland, agalmatolite of Sjöskum, and Florentine and Roman mosaics. There are several pages of description of the agate-cutting industry of Idar-Oberstein, Germany to which the plates belong.

1936. ERDMANN, KURT von Islamische Bergkristall-arbeiten. Np, nd, 23 p, 25 ill, buckram, 36 x 23 cm. Not seen:T Heneage, London, Cat 8, 1984, no 963.

1937. EREMEEV, P V Zametki o nekotorykh mestorozh-deniyakh Uralskogo mramora i nazhdaka. *Gornyi Zhurnal*, 1859, 2, 606-44. Not seen. Author of numerous short articles on Russian gemstones; see A E Fersman, *Ocherki po istorii kamnya*, 2, 1961, p 306-8, for ca 30 entries in bibliography.

EREMENKO, G K, see YURK, Y Y, et al

EREMINA, E V, see FERSMAN, A E, 1920

ERIKSON, JOAN MOWAT

Writer, artisan in precious metals & stones; BA(educ)Columbia U; MA (sociol)U of PA.

1938. -----1969

Joan Mowat Erikson | [orn rule] | The Universal Bead | Drawings by Mary Austin | W.W.Norton & Company · Inc · New York [1969]

8°: 191, [1 blank] p; 57 line drawings; 32 photos; 14 col photos on 4 glossy f bound-in & counted in pag but not so numbered(betw p 176-87). Dull red cloth, gilt title, blue rules on spine. Col dj; flap resume, portr, vita. 23.4 x 15.5 cm(9 1/4 x 6 1/8 in). LC 68-20819. JSL.

Cont: 1/2tp; tp; publ data; dedic; tab cont; pls captions & ackn; pref; text tp; 5 chs; index; blank p.

Much on history of beads from antiquity to present, esp among primitive cultures; emphasizes forms, designs, shapes, significance various types, superstitions, lore. Some raw materials described: pearl & shell, turquoise, amber, jade, and other minor gemstones; mineralogical/gemological data weak, inaccurate, or misleading, eg, precious pearl in common oyster. No formal refs.

ERNAULT, L, see MARBOD, 1890.

ERNESTI, JOHANN AUGUST(1707-1781)

Ger historian, archeologist, philologist; b Tennstedt, Thuringia; educ Wittenberg & Leipzig; 1734 rector St Thomas School, Leipzig; 1742 prof Leipzig U; apptd to Chair of Eloquence 1756; noted as Europe's leading Latinist of the time. Thomas *Univ Biogr*, 1878; *Biogr Univ* 13, 263-6.

1939. -----1768 Archaeologia literaria. Leipzig, 1768, 8°, not seen.

1940. -----1790, 2nd edit, by G H Martini

Io. Avgvsti Ernesti | Archaeologia | Literaria | [orn rule] | Editio Altera | Emendata Atqve Avcta | Opera Et Stvdio | Georgii Henrici | Martini | [orn rule] | Lipsiae a Svmtv Caspari Fritsch | MDCCLXXXX. [Leipzig, 1790]

8°: XXIV, 368 p; a^8, b^4, A-Z^8, Aa^4. 21 x 12.4 cm(8 1/4 x 4 7/8 in). Cropped. JSL.

Cont: tp; edit pref; auth pref; prologue; text; index.

A remarkable work, entirely ignored in treatises on gem engraving, in which Ernesti developes the origin and history of the writing and engraving of inscriptions by the ancients, mostly Greek, Roman, and Egyptian, executed in various materials, and left behind as manuscripts, coins, medals, bas-reliefs, statuary, engraved gems, etc. The two-part text first considers the raw materials as marbles, Ch 2, p 9-11, and gemstones and other "noble" stones, Ch 3, p 12-20, while the second part describes the uses and the products derived therefrom, and includes a long discussion of the art of gem engraving, Ch 5, p 68-73. These parts are followed by addenda or elaborations of matters previously discussed, ie, Excursus IIII, on marbles, p 130-43, V, on gemstones & gems, p 144-70, and XVII, on gem engraving, p 265- 74. There are numerous references scattered throughout the text, both ancient & modern, with heavy reliance on Pliny for Greek/Roman knowledge. Unfortunately, most references are so abbreviated that they are of little use to the reader unless he happens possess a familiarity with the literature equal to that of the author.

Revised and enlarged by Georg Heinrich Martini(1722-1794), German archeologist; *Biogr Univ*, 13, p 263-6, discusses Ernesti and his works and states this edition is "tres estimée," and also notes that the first edition was discussed by C A Klotz in his *Acta litteraria*, vol 194, noting several errors and a large number of omissions.

1941. EROFEEV, MIKHAIL

Kristallograficheskiya | I | Kristallo-Opticheskiya Issledovaniya | Turmalinovy. | [rule] | Mikhaila Erofeeva. | Dissertatsiya, | Predstavlennaya V Fiziko-Matematicheskii Fakultet C.Peterburskago | Universiteta, Dlya Polucheniya Stepeni Magistra Mineralogii I Geognozii. | (S 5-Yu Tablitsami Figury.) | [orn] | Sanktpeterburgy. | Tipografiya Imperatorskoi Akademii Nauky. | (Vas. Ostr. 9 Lin., N° 12.) | 1870.

8°: [2], 262 p; 5 litho pls(mainly crystal drawings). 23 x 15.3 cm(9 x 6 in). Cropped. JSL. Also in: *Zapiski Imperatorskogo (S Peterburgskogo) Mineralogicheskogo Obshchestva*, 1871, vol 6, p 80-342.

Highly detailed doctoral dissertation on crystallography and optical properties of tourmalines according to their colors, but only the 6th and final ch provides data on refractive indices and dichroism.

ESCARD, JEAN-GEORGES (1882-?)

Fr electr & civil engineer; devoted much of his career to writing popular expositions in science, technology, and industries, based upon recent scientific discoveries. *Dict Biogr Fr*, 12, 1416-7.

1942. -----1905

Les | Fours Électriques | Et | Leurs Applications Industrielles | Par | Jean Escard | Ingénieur, | Diplomé Du Labratoire Central d'Électricité | De La Société Internationale Des Électriciens | [rule] | Préface de Henri Moissan | Membre De L'Institut | Professeur A La Faculté Des Sciences De L'Université De Paris | Rule | Paris (VIe) | Vve Ch.Dunod, Éditeur | 49, Quai Des Grands-Augustins, 49 | [rule] | 1905 | Tous droits réservés

8°: XIII, [1 blank], 535, [1 blank]p; bound-in col front pl(doublep) + 221 fig(some fullp photos, others cuts). Print wrap. 23.6 x 15.3 cm(9 1/4 x 6 in). Cut. Fr 18. JSL.

Cont: doublep pl; 1/2tp; other author's bks; tp; pref; introd; 14 chs; tab cont; ill list; index; blank p.

While this is a detailed treatise on the contruction and uses of various types of electric furnaces it is of special interest to gemology because of its discussion of Moissan's attempts to synthesize diamond as given in Ch 5, p 148-74 and with comments on earlier attempts by Hannay.

1943. -----1906

Le Carbone | Et | Son Industrie | Par | Jean Escard | Ingénieur Civil | Ancien Élevè Du Labratoire Central | De La | Société Internationale Des Électriciens | [orn rule] | Paris (VIe) | H.Dunod Et E.Pinat, Éditeurs | 49, Quai des Grands-Augustins, 49 | [rule] | 1906 | Tous droits réservés.

8°: XVIII, 763, [1 blank]p; 129 fig, many tabs. Print wrap. 22.8 x 15.3 cm(9 x 6 in). Cropped. JSL.

Cont: 1/2tp; other bks of author; tp; pref; tab cont; 9 chs; index; blank p.

Massive, encyclopedic compilation on the several forms of carbon: diamond, graphite, amorphous carbon, coal, and others. Of the 9 chapters, four are devoted to the diamond: Ch 2, p 88-157, 44 refs, physical & chemical properties, classification; Ch 3, 158-278, 50 refs, occurrences; Ch 4, 279-346, 4 refs, industrial applications, and Ch 5, 347-421, 26 refs, formation of diamond in nature and attempts at its synthesis. There are numerous topics taken up under each heading and the final result is a most comprehensive geological, chemical, and mineralogical epitome of extant knowledge of the diamond in nature, in the labratory, and in industry. Despite the obvious completeness of the information and its authoritative nature, this work is rarely mentioned in gemological bibliographies, quite possibly due to the title which is apt to be misleading, notwithstanding the fact that nearly half of this tome is devoted to diamond.

1944. -----1911

La Science Des Gemmes | [rule] | Le Diamant | Et Les Pierres Precieuses | Par | Jean Escard | Ingenieur Civil | [wavy rule] | Extrait Du Correspondent | (N° Du 10 Aout 1911) | [wavy rule] | Paris | Dunod Et Pinat, Editeurs | 49, Quai Des Grands-Augustins, 49 | [rule] | 1911

Separate: 8°, [2 blank], 20 p. Popular & general article on gemstones.

1945. -----1914

Jean Escard | [rule] | Les | Pierres Précieuses | [orn rule] | Propriétés caractéristiques et procédés de détermination. | Diamant, gemmes quartzeuses, silicatées, alumineuses. | Perles. Corail. Gisements gemmifères: distribution géographique, | exploitation, production. | Travail des gemmes. Utilisation dans les arts industriels. | Production artificielle. Imitations. Lois et règlements. | [orn rule] | Paris | H.Dunod Et E.Pinat, Libraires- Éditeurs | 49, Quai Des Grands-Augustins, 49 | [rule] | 1914 | Tous droits réservés. [title in red & black]

4°: XXVI, [1], [1 blank], 520 p; 24 tip-in glossy pls(8 in col; 16 photo, printed in dk brown ink); 372 fig. Heavy gray paper wrap, title in red & black on cover & spine. 28 x 23 cm(11 x 8 in). Cropped. JSL. GS 16-310.

Cont: 1/2tp; tp; pref; tab cont; pls list; 15 chs; biblio(p 461-510, ca 1250 entries); index.

In its day the largest and most complete general work on gemstones and still very useful; it is somewhat comparable to Bauer's *Edelsteinkunde* earlier editions. The first chapter is almost unique in that it attempts to provide a fairly comprehensive history of gemstones from antiquity to the present in terms of their uses in personal ornament, as talismans or other charms, and as engraved seal gems, and dealing in part with frauds and imitations, among the usual topics of origin, composition and properties. The second and third chapters are theoretical gemology and describe how properties are determined. Chapters four and five are on diamond, that is, famous diamonds, properties of diamond, diamond deposits, mining, etc. Several succeeding chapters now describe the other gemstones, including some rarities. Chapter ten is devoted to pearl, coral, and amber. Chapter eleven discusses synthesis and gives details on methods used in the attempts to create artificial diamond and the work of Frémy and Feil (color plate) in the synthesis of ruby as well as the successful attempts of others to synthesize other gemstones and minerals. Chapters twelve and thirteen deal with lapidary work and gem engraving, the latter being especially fine. The fourteenth chapter is on gemstones in industrial arts, with much on industrial diamond and its many applications, corundum as an abrasive and jewel bearing, quartz in glasses, zircon, beryl, garnet, agate, and others that find industrial uses. The last chapter is on imitations in glasses, doublets, and the like, as well as synthetic corundum and spinel and how these may be detected. An important feature of this massive work is the equally massive bibliography in excess of 1200 entries which even today is unmatched in many gemological publications although it must be said that Escard included very many magazine articles and made the mistake of translating many titles into French which should have been left in their original languages. An unfortunate feature of this bibliography is omission of all paginations except the initial pages of articles. There are many fascinating text figures and illustrations upon plates, the best of the latter being photographic but the color photographic plates are surprisingly very poor and some specimens are depicted in unnatural hues. This is one of the most important works of Escard and it is now quite scarce. *Dict Biogr Fr* states that Escard published *Le diamant et les pierres précieuses* in 1904 but I have not been able to confirm its existence, and it is not given by Escard in his bibliography nor mentioned elsewhere.

ESCHENBACH, A C, see ORPHEUS, 1764

1946. ESCHER, B G On a remarkable composite diamond. *Leidsche Geologische Mededeelingen*, 13, 1, 1942, p 63-9, 4 pls, 9 fig. JSL. Complexly overgrown octahedral crystal depicted in 16 superb drawings.

ESCHWEGE, WILHELM LUDVIG von(1777-1855)

Ger mining engineer; stud mineralogy, geology, mining eng U Marburg; mining engineering duties & administration in Germany, to Rio De Janeiro as Dir Mineral Cabinet 1810; Dir Bur Mines Lisbon 1824; last years spent in Germany. *Der Aufschluss*, 33, 3, 1982, 20; Pogg I; also, biogr in *Commun de Comm dos Trabalhos Serv Geol Portugal*, 9, 1912-13, 180-214.

1947. -----1833

Pluto | Brasiliensis. | [rule] | Eine Reihe von Abhandlungen über Brasiliens Gold-, | Diamanten- und anderen mineralischen Reichthum, | über die Geschichte seiner Entdeckung, über das Vor- | kommen seiner Lagerstätten, des Betriebs, der Ausbeute | und die darauf bezügliche Gesetzgebung u.s.w. | von | W.L. von Eschwege, | Königl. Portugies. Ingenieur-Oberst und Oberberghauptmann u.s.w. | Nebst lithographirten Karten und Zeichnungen. | [double rule] | Berlin, | G.Reimer. | 1833.

8°: [6], [III]-XVIII, 622 p; front litho pl; 2 fold tabs in text; 11 fold tabs after text; 4 fold maps; 5 fold plans; 1 fold pl of gold washing with explan leaf. 21.5 x 13.5 cm(8 1/2 x 5 1/4 in). Cropped. BM(NH) copy. LC G-1311. Agassiz II, 362.

Cont: pl; tp; dedic; fwd; tab cont; text; errata; tabs; pls.

An outstanding, carefully researched work which reflects the numerous years of practical experience gained by the author while resident in Brazil and involved in the mining activities of that country, notably for gold, about which most of the book is concerned, but also for gemstones. The latter are treated in the fourth part, p 345-446, and include not only the diamond, to which most attention is paid, but also tourmaline, topaz, beryl, chrysoberyl, amethyst, euclase, and others. This is the first important work to provide a history of the discoveries of diamonds and gemstones in Brazil. Ch 1 of the fourth part describes how rumors of "emeralds" in the hinterlands set off several expeditions and how diamonds were more or less accidentally discovered instead of the expected emeralds. The last-named gemstone, actually green tourmaline, was said to have been found in 1573 or shortly before. This chapter also sets forth the regulations issued by the Portuguese Crown to control mining and trade in diamonds. The second chapter reviews the diamond mining industry for 1749-1822, with production statistics supplied. The third chapter describes the diamond mines, their administration and mining methods, occurrences of stones, and their characteristics and forms, and gives a list of crystals in the Royal Cabinet from the Serro do Frio. The last chapter discusses gold & diamond smuggling and other illegal activities connected with these minerals. A fundamental work of great importance in any historical treatment of the gold and gemstone mining industry of Brazil. Gonsalves, *Bibliogr Brasil*, 1928, p 71. An extremely scarce work.

1948. ESKENAZI, GIUSEPPE

Eskanazi | Chinese jades | from a | private collection | 8 June - 9 July 1976 | Foxglove House | (opposite Old Bond Street) | 166 Piccadilly | London W1V 9DE | Telephone: 01-493 5464/5 | Cables: Eskenazi London W1

8°: 51, [1 blank]p, of which 10 f are glossy paper, tip-in & bound-in, includ in pag; 28 b&w photos, 2 col photos(all photos on glossy paper). Heavy, glossy wrap, col photo on cover. 29.7 x 20.9 cm(11 5/8 x 8 1/4 in). Cut. £ 6.00. JSL.

Handsomely produced catalog offering for sale 30 important jades, each dated, described, and historically accounted for. High quality materials and photography. Born, p 120-1; Yang, 1352.

1949. ESPOSITER, VARNI COMPANY

A Guide for | Gem Buyers | Espositer, Varni Co. | 45-49 John Street | New York [title in single-rule frame; 1914]

Centersewn: [2 blank]p + 45, [1]p; 8 fig(2 portraits). Pale brown wrap, inward fold flaps, raised brown lett on cover with paste-on col pl. 13.4 x 8.9 cm(5 1/4 x 3 1/2 in). Cut. Text paper cream-tint. JSL.

Issued by a well-known New York firm of commercial lapidaries. Anthony Espositer, one of the proprietors, cut the faceted blue topaz egg in the Morgan Hall of gems, American Museum of Natural History. Brief remarks on cutting, gem properties, cut styles, sizes, dictionary of gems with essential data and prices charged for same by size; a short section on symbolism & lore.

1950. -----1950, reprint

A Guide for | Gem Buyers | International Gem Corp. | 15 Maiden Lane | New York 7, N.Y. [1950]

Centerstapled: 48 p, 6 fig, pale green wrap, cover title with brilliant gem in pale brown ink. 13.7 x 8.5 cm(5 3/8 x 3 3/8 in). Cut. Some minor text additions.

1951. ESTEVA, JOSÉ MARÍA Memoria sobre la pesca de la perla en la Baja California. Informe hecho para el Gobierno por el Visitador General de Rentas José María Esteva en 1857. *Sociedad Mexicana de Geografia y Estadistica Boletin* 10, Mexico, 1363. 8°: p 673-94. 26.2 x 16.7 cm(10 3/8 x 6 5/8 in). JSL. Excellent summary of Baja California pearling industry: history of pearling in Gulf of California, fishing methods, comparisons with methods used elsewhere, natural history & enemies of the oyster, locations & descriptions of the placeres (beds), the latter in useful detail, production history, recent statistics, suggestions for continued prosperity of the industry. CANNOT FIND REPRINTS: BAJA & MEXICO & 5-23-95

1952. ESTORCH Y SIGUÉS, PABLO

El Iman | De Los Venenos, | Ó Sea | Tratado | De La Piedra Escorsonera O Serpentina, | Su Orígen, Aplicacion, Usos, Etc. | [rule] | Memoria | Presentada Á Las Reales Academias De Medecina Y Cirujía | De Madrid, Barcelona Y París, | Por | D.Pablo Estorch y Sigués, | Licenciado En Medecina, Socio De Varias Corporaciones | Literarias, Etc. | [woodcut palm tree, with serpent] | Barcelona. | Imprenta De Los Herederos De La V.Pla, | Calle De La Princesa. | 1858.

Centersewn: 28 p; text woodcut; 20 x 14.3 cm(7 7/8 x 5 5/8 in). Cut. JSL.

The author, a physician of Barcelona, believes that serpentine, especially the porous variety, is efficacious in absorbing venoms and poisons from snakebite wounds, ulcers, boils, and other localized eruptions or infections. He cites earlier writers testifying to the usefulness of such "venom magnets," and attributes the earliest major use to the Brahmans of India. Short chapters describe applications of stones, specific curative uses, cite numerous actual cures that he investigated in Spain. A "Nota Interesante" describes the stones he offers for sale, how they are packaged, with prices, while on the last page he lists pharmacies in Spain where they are stocked.

ETEREO, ARDENTE, see ARDENTE ETEREO

1953. ETHÉ, CARL HERMANN(1844-1917) *Morgenländischen Studien*. Leipzig: Fues, 1870, 282 p; Ch 8 on amber, pearls, coral. Not seen.

1954. ETHERIDGE, ROBERT(1846-1920) Opal replacing *Cimoliosaurus*. *Records of the Austral Mus*, Sydney, 3, 1897, p 19-29. A second sauropterygian converted to precious opal, from the Upper Cretaceous of White Cliffs, New South Wales. Ibid, 5, 1904, p 306-16. Not seen.

1955. ETO, MOTOO

Jewels | 1970 [Osaka: Hoikusha Co., 1970; title in gold]

8°: [9], [1 blank], 85, [2], [1 blank]p; ca 115 col ill; also others in b&w photos & line drawing. Bright red silk, bev edges, title in gold on cover & spine. Pale green-gray embossed endp. Colorless ribbed plastic dj. 27 x 23.5 cm(10 5/8 x 9 1/4 in). Glossy paper. Cut. JSL.

Cont: tp; prefaces; tab cont; text; properties tab; index; publ data.

Superbly illustrated general treatise on gemstones published to celebrate the 70th anniversary of the Shobido Jewelry Company. All major & many minor gemstones are illustrated as cut & rough examples and accompanied by a descriptive text which includes remarks on sources, mining, history, etc. A section on synthetics is included and there is a large table on the properties of gemstones. Rev *G & G*, 13, 9, 1971, 300.

1955A. ETTINGHAUSEN, RICHARD

[double rule] Smithsonian Institution [double rule] | Freer Gallery Of Art | Occasional Papers | Volume One Number Three | [double rule] | Studies in Muslim Iconography | I. The Unicorn | By | Richard Ettinghausen | [logo] | Publication 3993 | Washington | 1950

8°: xii, 209, [1 blank]p + [24] semi-glossy f bearing 78 photos; 5 text fig. Pale terra cotta printed wrap, title on front cover, torch on back cover; wraps overlap contents. All paper pale tan. 23.1 x 15.3 cm (9 x 6 in). Cut.

Cont: tp; press data; fwd; tab cont; pls list; text figs list; text; biblio(p 163-91, 282 entries); index; blank f; pls.

"The following study tries to establish the various iconographic forms and the historical setting of the "unicorn" motif. It also intends to reconstruct the connotations most likely to be found in the mind of a medieval Muslim confronted with a picture of the animal." In his study, Ettinghausen describes the unicorn as imagined in cultures other than Muslim, and thus provides a later view than that of Odell Shepard, *The lore of the unicorn*, 1930, which see. References to ancient literature in which the unicorn, ivory, and mineral treasures are mentioned appear frequently in the text and are drawn from among the many resources listed in the bibliography. By itself, the latter is especially valuable and no student of ivory can afford to miss the painstaking assemblage of sound references that Ettinghausen has assembled.

1956. EULITZ, WERNER R Die rechnerische Ermittlung der optimalen Brillanz des Brillanten. *Zs Dt Gemm Ges*, 21, 1, 1972, 13-43; addit comments ibid, 21,3, 1972, 49. Describes the mathematics used to determine optimum angles for the diamond brilliant-cut.

EUNSON, ROBERT(1912-)

US newspaperman; b nr Billings, MT; Ariz State Coll, Flagstaff; eventually member staff Assoc Press & chief of bureau in Tokyo.

1957. -----1955

The Pearl King | The story of the fabulous Mikimoto | by Robert Eunson | New York | Greenberg: Publisher [1955]

16°: [12], 243, [1 blank]p; 32 photos on 8 glossy bound-in pls. Cream paper, treated to resemble nacre, over bds; black

cloth spine silver lett & dec. Col dj, portr of M on cover; resume, author vita. Te stained pink. 21.2 x 14 cm(8 3/8 x 5 1/2 in). Cut. $3.95. LC 55-10964. JSL.

"Published... simultaneously in Toronto, Canada, by Ambassador Books, Ltd."

Cont: 1/2tp; tp; publ data; quot; ackn; tab cont; ill list; 31 chs.

The only adequate biography in English. Takes Mikimoto's career from youth through his now famous experiments and trials in growth of cultured pearls in the waters of Japan. While there are arguments against his having been the first to develope the tissue-implantation method of initiating growth of nacre around inserted shell nuclei, it is certain that he made a success of it and started off the industry which has grown to such large size. In 1952, Mikimoto was 94 years old.

1958. -----1956, London

The | Pearl King | The story of the fabulous | Mikimoto | by | Robert Eunson | Angus And Robertson | London · Sydney · Melbourne · Wellington [1956]

8°: xii, p 13-206, [1], [1 blank]p; 32 photos on a glossy bound-in pls. Black cloth-like paper over bds, silver lett spine; col dj, resume, adverts. Te stained pale green. 21.6 x 14 cm(8 1/2 x 5 1/2 in). JSL.

1959. -----1956, Tokyo. Charles E. Tuttle Co., not seen.

1960. -----1957, Paris

Robert Eunson | Mikimoto | le roi des perles | The Pearl King | traduit de l'anglais par Henri Thies | Éditions Pierre Horay | 22 bis, Passage Dauphine, Paris-6e [1957]

16°: 221, [2]p; first f blank; 22 photos on 4 bound-in glossy f not includ in pag. White wrap, plastic-coated, with col & b&w photos of M on front & back; pale blue lett. Inward fold flaps; resume, other publ bks; back cover M vita, price 690 Fr. Uncut, cheap, browning paper. 19.3 x 14 cm (7 5/8 x 5 1/2 in). JSL.

Cont: blank f; 1/2tp; tp; publ advert; text; tab cont; press data.

1961. -----1959, serialized, Pearl King. *Austral Gemm*, Mar 1959 to Sept 1960; not seen; Gill, p 157.

1962. -----1963

The Pearl King | The story of the fabulous Mikimoto | by Robert Eunson | Tokyo, Japan | Charles E.Tuttle Company | Rutland, Vermont [1963]

Ident to 1st edit except in paperback; 18.5 x 12.3 cm(7 1/4 x 4 7/8 in). Paper wrap folds inward & resembles dj of original. HK $2.00. "This is a special edition for sale in the Far East only, being a complete and unabridged photo-offset reproduction of the first American edition... first Japan printing, January, 1956... third printing, (special edition) 1963."

EUNSON, R, see HAZELTINE, A I

EVANS, JOHN ARTHUR(1851-1941)

Brit archeologist; educ Harrow, Oxford, U Göttingen; specialty Greek civilizations; excavated palace at Knossos, Crete(1900-06); keeper, Ashmolean Mus Oxford. DNB.

1963. -----1925

'The Ring Of Nestor' | A Glimpse Into The | Minoan After-World | And | A Sepulchral Treasure Of Gold Signet-Rings | And Bead-Seals From Thisbê, Boeotia | By | Sir Arthur Evans, M.A., D.Litt., F.R.S. | With Five Plates, One Coloured And Four Collotype | And Fifty-Four Figures In The Text | Macmillan And Co., Limited | St.Martin's Street, London | 1925

"Published separately... from a paper in the *Journal of Hellenic Studies* (April, 1925)."

8°: [2], 75, [1 blank]p + 4 bound-in collotype pls on heavy pale tan paper + 1 col pl, folding, on glossy paper tip-in; 54 text fig. Dk red cloth, gold title on cover & spine. 27.3 x 18.6 cm(10 3/4 x 7 3/8 in). Cut. JSL.

Cont: tp; publ data; text; plates.

Describes a treasure of gold objects, incuding rings, some set with engraved gems, and stone seals, discovered in 1915 in a Mycenean rock tomb near Dombrena village, Greece. Minutely describes the engraved gems with many well pictured on the plates. There is also a detailed description and discussion on the significance of an intaglio ring discovered in the so-called "Tomb of Nestor," at Kakavatos, Greece. See also the handsomely illustrated article on the Bronze Age in Greece, mentioning the discoveries of Evans, *National Geographic*, 153, 2, 1978, p 142-85.

1964 EVANS, I O

Rocks, Minerals | & Gemstones | I.O.Evans | Hamlyn | London · New York · Sydney · Toronto [London: The Hamlyn Publishing Group, 1972]

8°: 128 p; title photo(spread over 2 pages) + 107 fig, mostly photos; 32 col photos. Black, cloth-type paper over bds, gold lett spine. Gray-green endp. Black dj, col photos, resume, vita. 28.5 x 21 cm(11 1/4 x 8 1/4 in). Cut. £ 1.75. ISBN 0 600 37537 4. JSL.

Cont: 1/2tp; front photo; tp; publ data; tab cont; text; biblio(p 124, 11 entries); ackn; index.

Popular, broad survey, with little substance in any section. The part on gemstones, p 100-17, is mostly on diamond, plus other gemstones, and also jet and pearl. There are several very good color illustrations of gemstones, notably a fullpage plate of cut gems in the Geological Survey Museum, London. Rev *Gems*, 5, 1, 1973, p 44.

EVANS, J R, see CALIFORNIA DIV MINES & GEOL, 1976

EVANS, JOAN (1893-1977)

Dgtr of Sir John(1823-1908) noted Brit archeol; her half-brother was Sir John Arthur(above); St Hugh's Coll, Oxford, remained as Librarian; at age 17 invited by Methuen to write *English Jewellery*, publ in 1921; Dame of Brit Empire 1976; Chev Legion d'Hon, Fr; first female pres Soc of Antiquaries, 1959; trustee, London Mus & Brit Mus. Autobiogr: *Prelude and Fugue*, 1962; also *Time and Chance*, 1943. Short, excellent discussion mbrs of Evans family by Diana Scarisbrick in *Finger Rings*, by G Taylor and herself, 1978, which see.

1965. -----1922

Magical Jewels | of the | Middle Ages and the Renaissance | particularly in | England | By | Joan Evans, B.Litt. | Librarian of St.Hugh's College, Oxford | [logo] | [rule] | Oxford | At The Clarendon Press | MCMXXII [1922; entire title enclosed in double-rule frame]

8°: [4], 264 p; front pl of jewel on glossy f tip-in + 3 other pls tip-ins; small text figs. Red cloth, gold lett & rules on spine. Two bindings seen: one with University badge at foot of spine with "Oxford" beneath, plus a single rule frame on both covers, while the other is plain cloth with only title & author on spine with gilt rules. 22.6 x 14.5 cm (8 7/8 x 5 3/4 in). Uncut. LC 23-6879. JSL.

Cont: 1/2tp; publ data; pl; tp; quot; pref; tab cont; ill list; introd; 9 chs; 7 appends; index of stones; index of proper names; general index.

Discusses belief in the virtues of gemstones and jewels from ancient periods into the 17th and 18th centuries, with emphasis on its manifestations in England. The subject matter is taken up chronologically and each chapter contains extensive citations from pertinent sources. The appendices reproduce 7 manuscripts and provide commentaries on same, 5 of these are in the Bodleian and 2 in the British Museum. A scholarly work, but not easy to read because of frequent introduction of foreign language citations which presuppose in the reader an academic background of considerable depth. Gems and precious stones are mentioned throughout, and specific virtues as have been assigned to them. Scarce.

1966. -----1976, New York reprint

Magical Jewels |...| [rule] | Dover Publications, Inc. | New York [1976; title enclosed in double-rule frame]

Cementb: [1 blank], [3], 264, [2 blank]p + [11, 1 blank advert]p; front photo ill + 3 others printed recto on text f but not counted in pag; small text fig. Plasticized paper wrap, color photo of opal; resume, prices, adverts (inside covers). 21.4 x 13.7 cm(8 1/2 x 5 3/8 in). Cut. $3.00; Canada $3.50. LC 76-26288; ISBN 0-486-23367-7. JSL.

Cont: blank p; photo; tp; publ data; pref; tab cont; ill list; quot; introd; text; blank f; advert; blank p.

EVANS, JOAN, see STUDER, P

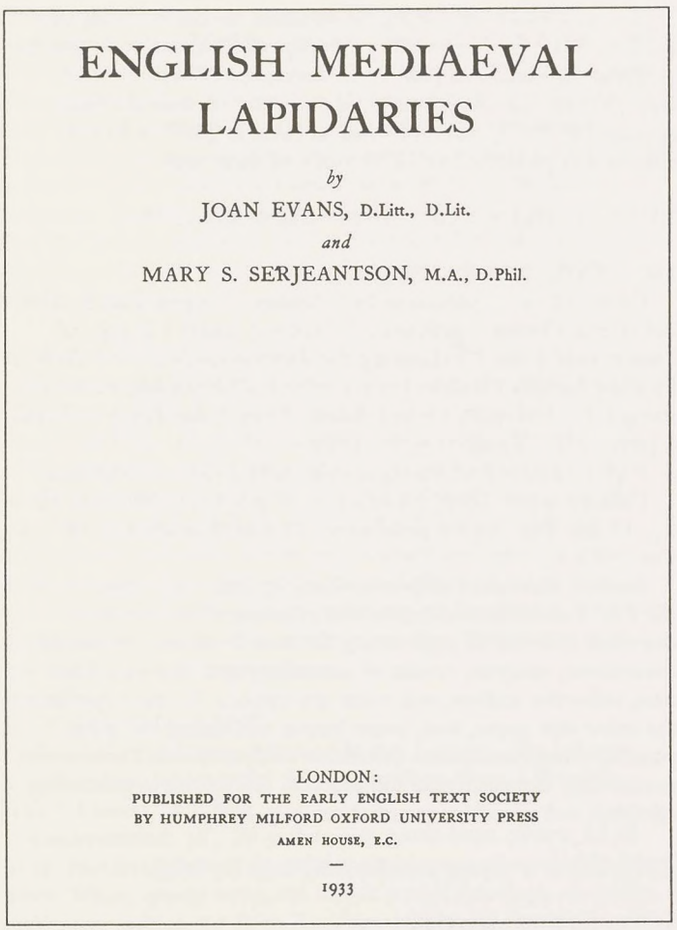
1967. EVANS, JOAN & SERJEANTSON, MARY S

English Mediaeval | Lapidaries | by | Joan Evans, D.Litt., D.Lit. | and | Mary S.Serjeantson, M.A., D.Phil. | London: | Published For The Early English Text Society | By Humphrey Milford Oxford University Press | Amen House, E.C. | [rule] | 1933 [Original Series no 190]

8°: xii, 205, [1 blank], 8[advert], [2 blank]p; photo front tip-in pl. Brown cloth, gold title & society seal enclosed in blind-ruled frame on cover; gold lett, rules on spine. 21.5 x 13.8 cm(8 1/2 x 5 1/2 in). Cut. Pale tan paper. 16 s. JSL.

Cont: 1/2tp; pl; tp; publ data; dedic; pref; tab cont; introd; text; list of stones; index of stones; tab of stones; gloss; blank p; advert; blank f.

The authors selected 7 Old English mss which deal with the virtues of gemstones and reproduce them in their entireties with parallel texts in modern English where necessary, and with profuse notes, comments, and comparisons. The mss range from an 11th century specimen in the British Museum to a late 16th century ms in the same museum but others treated are in the Bodleian. The mss are described, each studied in detail, and notes made upon them on p 131-87. The list of stones mentioned in them appears on p 188-91. The glossary selects Old English terms which may pose difficulty for the reader. Scholarly, complex, and no light reading by any means but offering


ENGLISH MEDIAEVAL LAPIDARIES

by

JOAN EVANS, D.Litt., D.Lit.

and

MARY S. SERJEANTSON, M.A., D.Phil.

LONDON:
PUBLISHED FOR THE EARLY ENGLISH TEXT SOCIETY
BY HUMPHREY MILFORD OXFORD UNIVERSITY PRESS
AMEN HOUSE, E.C.

1933

1967. Seven early English lapidaries are reproduced and analyzed

insights into early knowledge of gemstones and their assigned virtues.

1968. -----1960, reprint

English Mediaeval | Lapidaries |...| Published for | The Early English Text Society | by the | Oxford University Press | London New York Toronto

Changes in front matter; similar binding; same p size. 20 s.

EVANS, JOHN (1823-1908)

Brit archeologist, antiquary; b Bucks, Engl; at 17 entered paper business; ret in 1855, thereafter devoting life to study of geol, paleont, archeol, numismatics, etc; publ many papers; F R S 1864; Geol Soc Lyell Medal 1880; pres Soc Antiquaries 1885-92; acad honors from Oxford, Dublin, Toronto, Cambridge(ScD); KCB 1892. DSB.

1969. -----1872

The Ancient | Stone Implements, | Weapons, And Ornaments, | Of | Great Britain. | By | John Evans, F.R.S., F.S.A., | Honorary Secretary Of The Geological And Numismatical Societies Of | London, Etc., Etc., Etc. | London: | Longmans, Green, Reader, And Dyer. | 1872...

8°: xvi, 640 p; 476 wood engrv. Purplish cloth, gold arrowhead on cover within 4-rule black frame; black rules, gold lett & orn spine. Pale yellow endp. 23.2 x 15.3 cm(9 1/8 x 6 in). Uncut. JSL.

Contains much interesting information on the methods of working stone, the nature & properties of flint, and a chapter on personal ornaments in part made from jet, Ch 21, p 406-24, with illustrations. Allibone, *Suppl*, 1, p 564. A second edition appeared in 1979, and a revision of same in 1897; a French edition was published in 1878; none of these seen.

EVAX, REGIS ARABUM, see MARBOD, 1574

1970. EVERS, JOSEPH(1908-)

Chemische und physikalische | Untersuchungen | an synthetischen mit Chrom | gefärbten Spinellen | [rule] | Inaugural-Dissertation | zur | Erlangung der Doktorwürde | der | Hohen Philosophischen Fakultät | der | Albertus-Universität zu Königsberg i. Pr. | vorgelegt von | Joseph Evers | aus Büren i. Westf. | [orn rule] | Königsberg/Pr. 1936

P [II]: "Buch- und Verlagsdruckerei H.Klutke, Stallupönen."

Centerstapled: III p, [1 blank]p. + p 5-41, [1 blank]p; 10 fig, 18 tab. Pale brown print wrap. 22.4 x 15 cm(8 3/4 x 6 in). Cut. JSL.

Studied chromium-doped synthetic spinels made specially by the I.G. Farbenindustrie, Bitterfeld, Germany for this study; describes quantity of pigmenting Cr used in various specimens, colorations, analyses, results of annealing, spec gravities, hardness, refractive indices, and color absorptions. In most specimens the color was green, with some boules containing red parts, possibly where corundum exsolution had occurred. These experiments early demonstrated the practical difficulties in producing synthetic red spinel by use of chromium oxide.

EVETTS, B T A, see BABELON, E C F., 1889

1971. EWERS, JOHN C, Editor

Indian Art In Pipe stone [space] George Catlin's Portfolio In The British Museum | John C.Ewers Editor | British Museum Publications Ltd. and Smithsonian Institution Press, City Of Washington, 1979

Title spread over 2 pages: small pipe fig at top right of recto.

Oblong 8°: 80 p; 10 fullp col ill; 13 fullp b&w ill; 15 photos; 4 drawings; facsimile of an ms; facsimile of a periodical article p 78-80. White paper over bds, col ill & title on cover; black spine title. Pale brown-orange, textured endp. 20.8 x 28 cm(8 1/4 x 11 in). Cut, ISBN 0-87474-420-2; LC 78-2974. JSL.

Cont: blank p; tp; publ data; tab cont; ackn; introd; ms; append; biblio(p 78-80, ca 30 entries).

An unpublished manuscript and portfolio of drawings by George Catlin (1796-1873) preserved in the Department of Ethnography, British Museum, London are here reproduced in a high quality work with suitable annotations and a facsimile of an article published by Catlin in *The American Journal of Science and Arts*, vol 38, no 1, 1839, p 138-46, which concerns his visit to the pipestone locality in Minnesota. This is the subject of one of the fullpage Catlin illustrations, facing p 26, and shows the quarry site, encampment and the quarrying activity. The book itself describes mostly the manufacture of many types of Indian pipes that were carved from the pipestone, which later was given the name "catlinite" in his honor. Pipes carved from other materials are also shown as well as some that Catlin examined that were made from the famous black argillite of the Indians of British Columbia. There are, regrettably, no remarks made on mineralogy of catlinite or the geology of the deposit.

1972. EXHIBITION OF SPECIAL CHINA-PEKING ARTS & CRAFTS

Exhibition Of | Special China-Peking | Arts & Crafts | Published by | Tamar Publications, Inc. | Washington D.C., USA [1979, on dj only]

P: 79, "Editor John Dryden... Chinese Translator Robert Dunn," p[4]: "Copyright Two Winds Company Limited, Hong Kong and Two Winds USA Inc."

8°: 79, [1 blank]p; 54 col photos. Black paper over bds, Chinese characters on front cover; Engl spine title; red endp, dec with white Chinese characters. Black dj, col photo, flap data, notes. 27.9 x 21.5 cm (11 x 8 1/2 in). Cut. JSL.

Cont: Chinese title(?); dedic; tp; publ data; tab cont; introd; text tp decorated; sources & photo credits; select biblio(12 entries) & credits.

Extremely handsome production, beautiful, sharp color photographs of top quality which show, in the introduction, scenes in China and artisans at work, including a gemstone carving shop where obviously modern machinery is being used. There are 34 photos of superbly executed works in hardstones, coral, and ivory for the most part, and several others of dolls and cloisonne. Most of the carvings are extremely complicated and chosen to show the virtuosity of the craftsmen rather than good artistic taste. Many of the jades, corals, and agates, for example, are marvelously intricate in their branchings and cavitations and were carved "utilizing a jade carving technique recently developed in Peking," which probably is some sort of air-driven abrasive which enables extreme complexity to be achieved without fear of breakage as would be the case if conventional wheel-driven abrasives were used.

1973. EXPLICATION D'UNE PIERRE GRAVÉE dont l'empreinte a été envoyée à l'Académie des Inscriptions et Medailles au mois de Février 1708. [Paris, 1708?], (1), 14 p, 4°. On a Roman seal gem engraved with phallic emblems. Not seen.

1974. EXPOSITION GEMMOLOGIQUE Pierres précieuses. Bruxelles, 1959, 191 p, ill, index. Not seen.

EXPOSITION LE DIAMANT(ANTWERP), see DIAMOND EXPOSITION ANTWERP

1975. EYLES, WILFRED CHARLES

The Diamond Saw | And Its Operation | By Wilfred C.Eyles | Price $1.20

P [2]: "Copyright 1951 by Lapidary Journal, Inc., Palm Desert, California... First printing, October, 1951."

Centerstapled: 47, [1 blank]p; 2 fig. Orange wrap, olive green rules, cut gem, lett. on cover. 22.8 x 15.2 cm(9 x 6 in). JSL.

The first monograph on the diamond saw for use by amateur lapidaries. Development of the saw, features, machinery, how to use, and based on many years personal experience. Rev *R & M*, 27, 3/4, 1952, 184.

1976. -----1964

The Book Of | Opals | Wilfred Charles Eyles [orn rules, above & below prev 3 lines] | Charles E.Tuttle Company: Publishers | Rutland, Vermont & Tokyo, Japan [1964]

8°: 224 p; col front pl includ in pag; 20 col & 21 b&w photos on 16 f bound-in & tipped-in; 2 figs; 6 maps. Green cloth, gold title cover & spine. Yellow, charcoal-type endp. Col dj, col photos, resume, vita, other publ bks. 22.6 x 15.2 cm(8 7/8 x 6 in). Cut. $7.50. LC 64-14193. JSL.

Cont: 1/2tp; col pl; tp; publ data; tab cont; ill list; fwd; pref; ackn; text tp; 22 chs; gloss; index.

After a hiatus of many years, two important monographs on opal were published almost simultaneously, *The Opal Book*, by Frank Leechman, 1961, and the present volume. Necessarily considerable information is duplicated but Eyle's book leans more toward personal reminiscences than upon technical or scientific facts and thus provides material that is usefully consulted alongside Leechman's treatise which is mostly technical. The first 3 chs explain the nature of opal, its varieties, and characteristics, and are followed by 6 chs treating Australian opal deposits and the features of opals from them, another ch on Virgin Valley, Nevada opals, and one on the Mexican opals. Succeeding chs discuss opal commerce, curious lore, preservation, lapidary treatment, and other topics, ending with personal adventures in the opal diggings of Australia and a final chapter which quotes T.C.Wollaston's *Opal: The Gem of the Never Never*, 1924, claimed to be here "reproduced for the first time... from an account which came into the possession of the author," p 190. It is, however, clearly identical to Ch 2 and Ch 3 of Part 2, p 33-59, of Wollaston, save for a few words here and there which may have been changed during editing. This work is marred by numerous errors of fact, many unwarranted speculations, and much redundancy, with some color illustrations superior to those in Leechman's book. On the whole, however, the latter is considerably superior in terms of substance. Rev *J Gemm*, 9, 10, 1965, 363; *G & G*, 11, 8, 1964-5, 253-4.

EYRIÈS, J B B, see MAWE, J, 1816.

FABERGÉ, see index; also KRAIRIKSH, BUSAYA, Edit

1977. FABERGÉ, CARL

Carl | Faberge | ja hänen aikalaisensa | och hans samtida | and his contemporaries [1980; with loose guide pamphlet]

"This catalogue is printed for the exhibition Carl Fabergé And His Contemporaries The Museum of Applied Arts, Helsinki, 16.March - 8 April 1980... Copyright Oy A.Tillander Ab Helsinki, Helsingfors 1980."

8°: 98, [2 blank]p; 50 col photos(includes 2 sketch maps); 52 b&w photos. Plasticized dull green wrap, gold title & col photo on cover; gold lett & col photo back cover. 22 x 21.7 cm(8 5/8 x 8 1/2 in). Cut. ISBN 951-99249- 6-5. Ca US $19.00. JSL.

Cont: caption to cover photo(inside front cover); tp; publ data; tab cont; fwd; text; blank f; caption to back cover photo on inside of same; loose insert guide to the vitrines, center-stapled, [16]p, 20.2 x 20.1 cm (7 7/8 x 7 7/8 in).

The foreword is actually acknowledgments of assistance received and is followed by a chapter by A Kenneth Snowman on Fabergé, which like all the text, is written in English, Swedish, and Finnish. A second chapter by Géza von Habsburg-Lothringen treats revivalist tendencies in jewelry, especially as exemplified in Fabergé works. The next chapter, by Ulla Tillander-Godebheim, provides historical/personal notes on Fabergé's Finnish workmasters and designers, giving names, vitas, careers, accomplishments, etc, with portraits. Christina Ehrnrooth next provides a short history of the House of Fabergé in the form of a chronology and also another chapter on hallmarks. There is also a short history of the Tillander jewelry firm by Herbert Tillander, and to complete the text a chapter on Finnish goldsmiths working in St.Petersburg for two centuries by Max Engman.

1978. FACHGRUPPE EDELSTEINE Die Edelsteine. Schleifarten und Formen. Herausgegeben von der Fachgruppe Edelsteine e.V. im Landesverband Edelsteine und Schmuck, Rheinland-Pfalz. Idar-Oberstein 2, Gewerbehalle. [No date, ca 1936; wrap title only]. Edgestapled: [32]p, includ wraps, the last [5]p blank; 215 small diagrs facet, cabochon, and engrav gem cutting styles. 10.2 x 14.7 cm (4 x 5 3/4 in). Cut. JSL. Promotional pamphlet: tables of planetary and zodiacal gems, index to type cuts in Ger, Engl, Fr, and illustrations of same, tables of properties & principal occurrences, hardnesses, chemical composition. I know of no other publication that shows as many styles of traditional cutting.

1979. FAFARD, RENÉ

The | Cowee Valley | Ruby Mining | Story | By | René Fafard | Copyright 1965 | By Cowee Gem Shop | Franklin, N.C. | Printed In U.S.A.

Centerstapled: [2], 23 p (last p is inside back cover); 32 ill (map, sketches, photos, crystal drawings); one photo inside front cover. White, glossy wrap, col lett & crystal drawings on cover; back cover publ name & mail address blanks. 22.9 x 15.2 cm(9 x 6 in). Cut. $1.50. JSL.

For visitors to the alluvial ruby diggings in Cowee Creek valley nr Franklin, North Carolina: brief description, tourist facilities, history of the valley, how to mine, sites, information on gemstones, ruby deposits in the valley, ruby properties, crystallography, star stones, carat weight, other gemstones found. Interesting, factual, with several old photos of early mining. The writer is a resident land-owner.

FAHEY, J J, see FAUST, G T

1980. FAHREUS, F Om perlfisket och Linne's homliga konst att befordra perlbildningen hos musslar. *Översigt af Kgl Vet-Akad Förhand*, 1859, 89-117. Not seen.

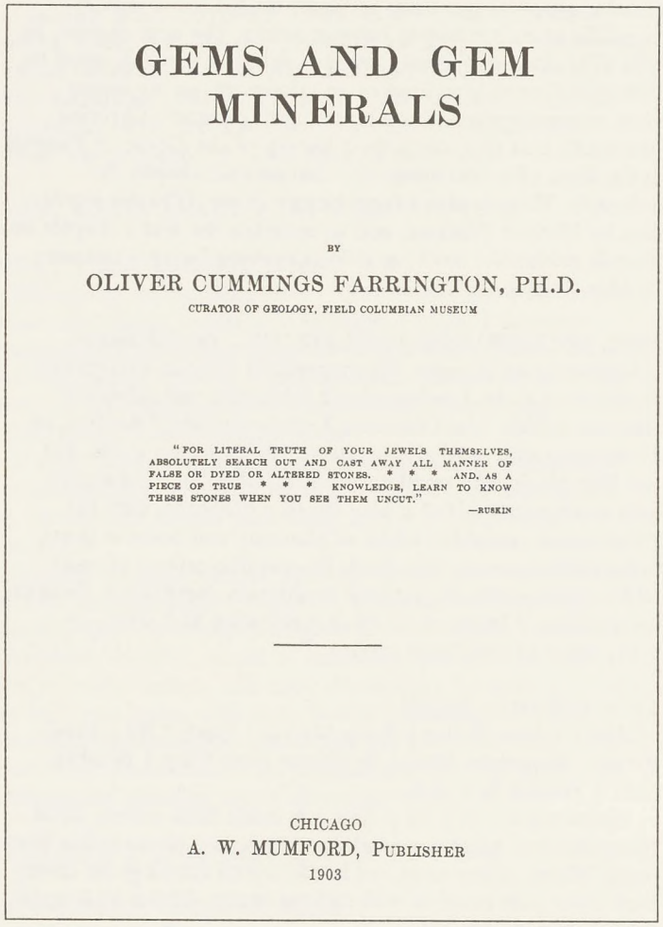
1981. FAIRFIELD, DEL

Teach Yourself Books [series logo to left] | Lapidary | Del Fairfield | St.Paul's House Warwick Lane | London EC4P 4AH [1973]

Cementb: 126, [2]p; many ill. Col wrap. 17.8 x 11 cm(7 x 4 3/8 in). Cut. UK 50 p; Austral $1.50; NZ $1.45; Can $1.95; Dover Publ New York, $2.00. ISBN 0 340 18254 7. JSL.

Cont: resume; tp; publ data; tab cont; 12 chs; appends.

Clear explanations of fundamental processes in all types of work: descriptions of gem materials, setting up shop, making jewelry, and appendices for equipment makers/suppliers; books/periodicals; clubs in Britain; speeds table. Excellent line drawings applicable to making one's own equipment and



GEMS AND GEM MINERALS

BY

OLIVER CUMMINGS FARRINGTON, PH.D.

CURATOR OF GEOLOGY, FIELD COLUMBIAN MUSEUM

"FOR LITERAL TRUTH OF YOUR JEWELS THEMSELVES, ABSOLUTELY SEARCH OUT AND CAST AWAY ALL MANNER OF FALSE OR DYED OR ALTERED STONES. * * * AND, AS A PIECE OF TRUE * * * KNOWLEDGE, LEARN TO KNOW THESE STONES WHEN YOU SEE THEM UNCUT."

—RUSKIN

CHICAGO

A. W. MUMFORD, PUBLISHER

1903

1993. Titlepage to Farrington's popular work on gemstones which featured numerous color illustrations

accessories. Inspirational to the beginner but far too brief to be truly useful, eg, as in faceting, to which only 10 pages are devoted. Rev *J Gemm*, 14, 4, 1974, 194; *Gems*, 7, 3, 1975, 47.

FAIRHOLT, FREDERICK WILLIAM (1818-1866)

B London; in tobacco-mfr industry; early years stud art & archeol; practised commercial art, esp engrav. Allibone, *Suppl*, 1; DNB, p 657: "Fairholt's antiquarian knowledge and fidelity as a draughtsman were much in demand for the illustration of publications;" this included his own, as below.

1982. -----1871

Rambles Of An Archaeologist | Among Old Books And In Old Places: | Being | Papers on Art, | In Relation To | Archaeology, Painting, Art-Decoration, And Art- | Manufacture. | By Frederick William Fairholt, F.S.A., | Author Of "Dictionary Of Terms In Art," Etc. | Illustrated with Two Hundred and Fifty-nine Wood Engravings. | London: | Virtue And Co., 26, Ivy Lane, | Paternoster Row. | 1871. [title in red & black, in single-rule frame]

4°: viii, 259, [1 blank]p; front ill with tissue & counted in pag + 258 wood engrav. Green cloth, elaborate orn black frame enclosing gilt title and with gold mounted steed on cover; similar elab orn back cover & spine. Bevel bds. Dk brown dull endp. 22.8 x 16.8 cm(9 x 6 1/2 in). Aeg. JSL.

Cont: front; tp; edit note; tab cont; text; blank p.

Five papers: misc decorative arts, grotesque designs, finger rings, brooches & dress fastenings, Albrecht Dürer and his work, previously publ in *Art J*. The paper on rings, p 71-157, contains much interesting material on rings of various periods, their sometimes curious forms, uses, and with remarks on engraved gems used in some. A respected work, frequently referenced.

1983. -----post 1871, reissue, new title

Rambles Of An Artist: | Being | Papers on Art, |...| London: | Virtue And Co., 26, Ivy Lane, | Paternoster Row. [nd; only one line rubricated; all enclosed in single-rule frame]

Now in red cloth; subtitle on cover omitted; spine foot bears imprint "Reeves Turner" instead of"Virtue & Co."; no date in editorial note; otherwise identical.

1984. FALK, FRITZ Ringe aus vier Jahrtausend. Pforzheim: Schmuckmuseum, 1929, 24 p, 40 pls, 300 items in 14 groups. Not seen.

1985. -----1975

Fritz Falk | Edelsteinschliff | und Fassungsformen | im späten Mittelalter | und im 16.Jahrhundert | Studien zur Geschichte der Edelsteine | und des Schmuckes | Verlag Wilhelm Kempter · Ulm(Donau) [1975]

8°: 150, [2 blank]p; 83 ill(mostly photos). Pale tan cloth, gold title on cover & spine. 21.9 x 15.7 cm(8 5/8 x 6 1/8 in). Cut. ISBN 3-921348-15- 3; LC 78-376832. JSL.

Cont: 1/2tp; dedic; tp; publ data; tab cont; introd; text; concl; biblio(p 145-50, 158 entries); blank f,

Studies the types of fastenings used to hold polished gemstones in various kinds of jewelry and ornamental objects from the late Middle Ages into the 16th century. Originally prepared as a dissertation, University of Tübingen, Germany. The first of three text parts is mainly of interest to gemologists because it deals at length with diamond cutting in France in the 14th-15th centuries, describing the types of stones cut, styles of cut, and other topics, but saying very little about gemstones other than diamond, and unfortunately, scarcely anything at all about the specific techniques used by jewelers to make mountings. The illustrations are from many earlier sources and show close views of fastenings as well as the objects of which they were integral parts. Rev *J Gemm*, 15, 1, 1976, 34.

FALK, F, see GREAT BRITAIN. LONDON: VICTORIA & ALBERT MUS

FALKMAN, C H, see BENHAM, C, 1954

1986. FALK-RØNNE, ARNE

Arne Falk-Rønne | Djaevelens Diamanter | Gyldendal 1961 [København]

8°: 166, [2]p; doublep sketch map; 37 col photos on 16 glossy tip-in & bd-in f. Thick white paper wrap, black title cover & spine. 24.1 x 16 cm (9 1/2 x 6 1/4 in). Uncut. JSL.

Cont: 1/2tp; other author bks; tp; publ data; 11 chs; gloss native terms; biblio(6 entries).

Describes experiences among diamond miners and other natives of British Guiana near the headwaters of the Mazaruni River and its tributary the Kurupung River as shown on the sketch map. The treatment is refreshingly factual and generally unspoiled by the excessive romanticism injected by other explorer-writers who visited the region and wrote about their adventures. Gives valuable details on mining, excellent photographs, commercial aspects of the industry, natives and life, the jungle

and its hazards, and other accounts of life in a remote jungled area. The author includes remarks on famous large diamonds from other world sources and on some exceptional stones found in British Guiana. Djaevelens diamanter="Devil's diamonds."

1987. -----1962, Stockholm

Arne Falk-Rønne | Djävulens diamanter | Genom Guyanas djungler i conquistadorernas spår | [logo, reading "Forum"] [Stockholm: Victor Pettersons Bokindustri Aktiebolag, 1962] [transl by Olof Hoffsten]

8°: 185, [2], [1 blank]p; same ill. Plain white inner wrap; outer wrap col photo, etc, with inward-fold flaps; flap resume, reviews. 24.3 x 16 cm (9 1/2 x 6 1/4 in). Uncut. Kr 35:- paper; 40:- bound. JSL.

From Danish into Swedish, with slightly longer text; glossary not identical and several terms omitted.

FALZ, ERNST (1870-)

B into an Idar-Oberstein family of lapidaries & jewelers; traveled extensively in behalf of father's business, which he acquired in 1900; organized Birkenfeld Handelskanmer & its first pres; local historian.

1988. -----1926

Die Idar-Obersteiner | Schmuckstein-Industrie | Unter besonderer Berücksichtigung | ihrere Betriebsformen | und ihrer Handelsorganisation | Von | Ernst Falz | Dr.rer.pol. | [orn] | Carl Schmid Verlag | [rule] | Idar 1926

8°: 291, [2], [1 blank]p. Gray-green wrap, title in double-rule frame on cover; press logo back cover. 22.8 x 14.7 cm(9 x 5 7/8 in). Cut. USGS Kunz Coll, GS 34-211.

Cont: 1/2tp; tp; publ data; fwd; tab cont; introd; text; summary; references; errata; blank p.

The present treatise was written as a doctoral dissertation in 1925 for University of Hamburg. In the first of three parts, Falz examines the early history of the agate industry in the Idar-Oberstein region up to the beginning of the modern era of the 19th century, being careful to note places, persons, events, etc, during the earliest years and during the "blossoming" period in later years as assured supplies of raw agate from South America permitted expansion. The second part treats the period before World War I, again carefully delineating the organisations and regulations that were instituted, and the development of specializations in work, trade, exports, etc. The last part similarly deals with the period after World War I. Lauded by P Ruppenthal, 1985, p 5 ff, who bases his examination of the industry from 1923 to 1985 upon Falz's work.

1989. -----1929 Von Menschen und edlen Steinen Von Ernst Falz - Idar 1929, Selbstverlag des Verfassers. Not seen; see identical photocopy version below.

1990. -----19-?, reprint of above

Von Menschen und | edlen Steinen | Von Ernst Falz - Idar | 1939 | Selbstverlag des Verfassers [no date, nor ackn of original source]

Cementb: [2 blank], [3], [1 blank], 171, [3 blank]p; 8 photos, mainly portrs. Pale blue wrap, cover title. 21 x 14.7 cm(8 1/4 x 5 3/4 in). Cut. JSL.

Cont: blank f; tp; 2 photos, one per p; tab cont; text in two parts, 12 & 15 chs; 3 blank p.

The first part is a series of sketches of notable or interesting persons and workers in the gemstone businesses of Idar-Oberstein, and taken verbatim from the author's contemporary newspaper articles. The second part is on gemstones and is both fascinating and instructive because of its references to many gem-producing regions of the world, the Idar-Obersteiners who traveled there, and their adventures. There is a great deal of solid, historical information upon the gemstones of Brazil, many individual gemstones from amethyst to diamond, including stories of famous rough specimens and what became of them, a short article on Madagascar and its gemstone resources, and other vignettes from the author's life and field experiences.

1991. -----1950

Ernst Falz† | "Charivari" | Skizzen | aus der Idarer Schmuckstein-Industrie | (Band 2) | [rule] | Idar-Oberstein · Im Eigenverlag · 1950

8°: stapled sections: 147, [1 blank]p; 2 tip-in glossy pls; tip-in fold glossy map Idar-Oberstein region. Blue cloth, gold lett cover & spine. 20.8 x 14.8 cm(3 1/4 x 5 7/8 in). Cut. JSL.

Cont: tp; publ data; fwd; portr pl(author); poem; tab cont; text; concl; blank p; fold map.

An intimate, often amusing and always sympathetic portrait of the gem cutters and tradespeople of Idar-Oberstein, treating their customs, history, work procedures & trade, business & personal problems, and sketches of special characters among them. The first of three text parts gives short histories of lapidary villages, giving the nature of their specialized lapidary work, the character of the inhabitants, and pointing out the astonishing differences in customs that exist in tightly-knit communities lying only a few kilometers from each other. The second section collects miscellaneous anecdotes which again center on the gem industry, while the last part gives biographical sketches of notable characters and persons important in the development of the industry. This work was posthumously published by the author's son, Ernst Falz, and while the title denotes this as "Volume 2," there is no indication what work comprised the first volume.

FALZ, ERNST, see OLDENBURGISCHEN INDUSTRIE... Idar

1991A. FANALES, F M

F.M.Fanales | [orn rule] | Il Diamante | [3-line quot] | [double-rule] | 2ª Edizione | [double-rule] | Catania | N.Gianotta, Editore | 1890 [Sicily]

4°: 86, [2 blank]p + tip-in leaf with errata recto; 5 text fig. Dull orange wrap, title on cover in orn-rule frame; back cover price. 20.1 x 13.4 cm(7 7/8 x 5 1/4 in). Uncut. Lire 2.50. JSL.

Cont: blank f; tp; dedic; tab cont; biblio(50 entries); 4 chs; blank f; errata.

Popular treatment of diamond: brief history, properties, falsifications and look-alike gemstones, crystallography, varieties, uses, genesis, synthesis, deposits, cutting, commerce, and famous diamonds. There is no indication of date of first edition; paper badly browning, embrittled, meager sewing, and all in all, probably very copies survive.

FANCK, A E, see METZ, R, 1964

1992. FARINI, G A Through the Kalahari desert. London: Sampson Low, 1886. 475 p, ill, map. Chs 2 and 3 deal With the diamond fields. Not seen; from Southey no 27.

FARNHAM, P, see TIFFANY & CO, 1891

FARRINGTON, OLIVER CUMMINGS(1864-1933)

USA geol, mineralogist, museum curator; b Brewer, Maine; PhD Yale U 1891; brief duties US Nat Mus Wash DC (G P Merrill his brother-in-law); 1894 to first curator of geol in new Field Mus, Chicago, where he stayed for 40 yrs; expert several fields, esp meteorites; strong interest in gemstones throughout career. Obit L J Spencer, *Min Mag*, 24, 153, 1936, 284-5.

1993. -----1903

Gems And Gem | Minerals | By | Oliver Cummings Farrington, Ph.D. | Curator of Geology, Field Columbian Museum | "For Literal Truth Of Your Jewels Themselves, |...[4 more lines]... | - Ruskin | [rule] | Chicago | A.W.Mumford, Publisher | 1903

8°: xii, 229, [1 blank]p; glossy col front pl tip-in + 15 others, also 12 glossy pls tip-ins (includes 3 maps); 53 figs; 9 tabs. Olive-green ribbed cloth, gold title cover & spine, rules. 27 x 19.8 cm(10 5/8 x 7 3/4 in). Cut. $3.00. LC 4-2641. JSL.

Cont: 1/2tp; pl; tp; publ data; tab cont; ill list; col pl list; pref; text; index; blank p. Addit flyleaves at each end.

One of the best known and admired popular treatises on gemstones which presented its substance in easily understood yet dignified language but with tasteful interjections of romance and curious lore. The first chapters form a general introduction to the natural history of gemstones, their properties, sources and mining, cutting, evaluation, imitations, simple methods of identification, curious lore and birthstones. The largest portion of the text that follows is taken up with descriptions of gemstones in which much is to be found besides dry facts. Farrington was greatly interested in native gemstones and much on them is therefore incorporated where pertinent. One of the attractive features is the large number of colored photographic plates with several small figures upon each showing rough and cut stones. At the time they no doubt greatly helped sales of the book but are now to be regarded as only mediocre in quality. Disappointingly, there is no bibliography. In 1914, Farrington published similar descriptions of gemstones in the series *Nature Neighbors*, see above under BANTA, N.M. Not a scarce book.

1994. -----1923

Amber | Its Physical Properties And | Ceological Occurrence | By | Oliver C. Farrington | Curator of Geology | [mus logo] | Field Museum of Natural History | Chicago | 1923

"Leaflet Number 3" of the Department of Geology.

Centerstapled: front pl + p 25-31, or 7 p; 2 other pls; 1 fig; all pls amber-tinted photos. Yell wrap, cover title. 21.4 x 13.8 cm(8 1/2 x 5 1/2 in). Wraps overlap slightly. Cut. JSL. GS 30-285.

General article on amber, surprisingly comprehensive, well-written, for the public and most interesting. See following pamphlets of similar ilk.

1995. -----1927, with LAUFER, BERTHOLD

Agate | Physical Properties and Origin | By | Oliver C.Farrington | Curator Of Geology | [rule] | Archaeology and Folk-Lore | By | Berthold Laufer | Curator Of Anthropology | [mus logo] | Geology | Leaflet 8 | Field Museum Of Natural History | Chicago | 1927 [Wrap title]

Centerstapled: p 105-40, or, 36 p; front col pl tip-in + 13 others, 3 in col are tip-ins, others bound-in; 1 col text fig. Pale brown-yellow wrap, cover title. 21.6 x 14 cm(8 1/2 x 5 1/2 in). Cut. $.50. GS 30-290. JSL.

A fine small work on agate in which the essential facts are given in clear language: physical properties, origin, deposits, natural and artificial coloration, dyeing, cutting. Laufer(see under his name for biogr details and other works) discusses early knowledge and uses of agate, types of objects made from same, mystical and magical properties attributed to agate, and other cultural aspects. The plates depict slices of agate, another shows an agate slice, sectioned, each of the sections dyed differently, then recemented together(Plate VII), which plate forms the frontispiece of Dake, Fleener & Wilson, *Quartz Family Minerals*, which see. There are also photographs of lapidary operations in Idar-Oberstein, Germany and views of agate fields in Uruguay, while Laufer's section contains jewelry pieces using agate. A scarce work.

1996. -----1929

Famous Diamonds | By | Oliver C.Farrington | Curator Of Geology | [mus logo] | Geology | Leaflet 10 | Field Museum Of Natural History | Chicago | 1929 [wrap title]

Centerstapled: 27, [1 blank]p; gloss front tip-in pl, part col + 4 others on matte-finish pale tan paper. Pale brown wrap, cover title only. 21.7 x 14 cm(8 1/2 x 5 1/2 in). Cut. $.25. JSL.LC 29-7167.

Historical & descriptive sketches of Cullinan, Dresden Green, Empress Eugenie, English Dresden, Florentine, Great Mogul, Hope, Jubilee, Koh-I-Nur, Nassak, Orloff, Pasha of Egypt, Pigott, Polar Star, Regent, Sancy, Shah of Persia, Star of Este, Star of South Africa, Star of the South, Stewart, and Tiffany. Several cut stones shown on front plate; another shows Cullinan stone and its offspring; two plates are portraits, one of Tavernier; last plate is of Taj Mahal. Scarce.

FAUST, GEORGE TOBIAS(1908-1985) & FAHEY, JOSEPH J

G T Faust USA mineralogist; PhD U Mich 1934; USGS duties 1942-77; "faustite," zinc analogue of turquoise; Obit *Amer Min*, 71, 1986, 843-44.

1997 -----1962 The serpentine-group minerals. *US Geol Survey Prof Paper* 384-A, 1962, print wrap, centerstapled: V, 92 p, 42 fig, 28 tabs. Basic scientific reference to which gemologist can turn to settle questions on serpentines. Treats: classification, nomenclature and history of the term "serpentine," minerals names (large list!), geological occurrences (with specimen list), microscopy, chem analyses, structure, thermal analyses, X-ray studies, etc, etc, with extensive bibliography, p 87-92, 243 entries.

FAUSTINO, L A, see TALAVERA, F

1998. FAY, GORDON S

The | Rockhound's | Manual | Gordon S.Fay | [logo] | Harper & Row, Publishers | New York, Evanston, San Francisco, London [1972]

16°: x, 290 p; 8 col pls bound-in; 40 fig. Pale brown paper over bds; pale blue cloth spine with black lett. Col dj. 20.6 x 13.2 cm(8 1/8 x 5 1/4 in). Cut. $7.95. LC 77-157080; ISBN 06-011218-2. JSL.

For the beginner: general advice on taking field trips, mineralogy, mineral identification, prospecting, minerals & gemstones in the United States, touring, the hobby at home. Very broad scope, hence shallow and essentially less than useful. Gemstones mainly in Chs, 8, 9, 10, 11, p 108- 69; Ch 13, p 174-92 lists places where gemstones reported in USA; Ch 15 mentions gem cutting.

1999. FAZENDA, PEDRO

Pedro Fazenda | [3 square dots] | A Ouvrivesaria | Portuguesa Contem-| Porânea E Os Metais | E Pedras Preciosas | [same dots] | Lisboa | 1927 [priv publ]

8°: 222, [2]p; front photo of author on bound-in glossy f & includ in pag + 104 photos on 71 tip-in & bound-in glossy f, not includ in pag. Thick white wrap edges overlap text; title in red, col orn, frame on cover; similar dec spine & back cover. 23.9 x 18.8 cm(9 3/8 x 7 3/8 in). Cut. JSL.

Cont: 1/2tp; pl; tp; dedic; prologue; text; concl; authors consulted but names only given; index; errata & publ data; ackn.

Survey of Portuguese goldsmith's art at the time, with many photographs of objects made by firms in Portugal. Treats raw materials, namely, precious metals and stones in the first part, then reports trade conference results, trade economy, thumbnail sketches of contemporary jewelry businesses and examples of their work. The precious stones portion, p 61-110, briefly describes 16 important gemstones from diamond to pearl but the information is standard; under diamond there are four photographs of diamond mining in Angola.

2000. FEASEY, PEGGY

Rubies & | [rose orn] Roses | Gems Portrayed In Flowers | by Peggy Feasey | Charles E.Tuttle Company | Rutland, Vermont & Tokyo, Japan [1970]

4°: 126, [2 blank]p; col front glossy photo pl tip-in & includ in pag + 47 others, integral in text, all colored save 4 in b&w, all includ in pag. Red unfin silk, white rose on cover, gold & white lett spine. V pale gray endp with chatoyant floral design due to silky white inclusions in the paper. Col dj, resume, vita, advert. 26 x 18.8 cm(10 1/4 x 7 3/8 in). Cut. $12.50. LC 72-83377; ISBN 8048-0507-5. JSL.

Cont: 1/2tp; caption; pl; tp; publ data; dedic; tab cont; ill list; fwd; pref; introd; text; append; biblio(14 entries); glossary-index; blank f.

Interesting, handsomely-illustrated, made from first-class materials and with good workmanship, attempting to interpret imagined spirit of certain gemstones in floral arrangements which may or may not incorporate gemstones along with the flowers. Text provides brief descriptions of 27 gemstones, stressing romantic aspects and describing floral arrangements along with reference to the plates. Unfortunately, the text contains many misstatements and inaccuracies, no doubt due to failure to consult modern gemological authorities which are conspicuously absent from the list of works consulted. Rev *G & G*, 13, 4, 1969-70, 135.

2001. FEKLICHEV, VLADIMIR GEORGIEVICH

V.G.Feklichev | Berill | Morfologiya, Sostav I Struktura | Kristallov | [double-rule] | Izdatelstvo "Nauka" | Moskva 1964

At head of title: "Akademiya Nauk SSSR Gosudarstvennye Geologicheskii Komitet SSSR | [rule] | Institut Mineralogii, Geokhimii | Kristallokhimii | Redkikh Elementov..."

Cementb: 123, [1]p; 34 pls, one in col also numbered "33," each with 2 or more photos or drawings on glossy f + [2]p; 26 fig; 38 tabs. Blue wrap, beryl crystal on cover, b&w lett. 25.6 x 16.7 cm(10 1/8 x 6 1/2 in). Cut. 1 r 7 k. Press run 1200 copies. JSL.

Cont: tp; publ data; pref; 6 chs; summary; biblio(p 111, 131 Russ & 151 other); pls tp; pls explan; pls; tab cont; publ data.

According to the title: the morphology, composition and crystal structure of beryl in its several varieties, but it is actually a more or less complete monograph on the mineral and therefore contains considerable information useful to the gemologist. Plates depict many types of crystals, "deformed" or crystals with defects, zoned crystals, inclusions, etc; their photos are fair to poor.

FELDHAUS, F M, see GRODZINSKI, P, 1953

2002. FELKERZAM, A E From 1908 to 1916, this Russian author wrote eight articles of from about ten to fifteen pages in length on gemological topics in *Starye Gody*, Moscow, namely, on nacre, amber, lapis lazuli, coral, rock crystals, chalcedony, etc. Not seen.

FELIX, JOHANNES PAUL(1859-1941)

Ger paleontologist; PhD Leipzig 1882; faculty Leipzig U 1884-1933; expeditions to Mexico & North America; many publs.

2003. -----1883 Untersuchungen über fossile Hölzer. *Zs Dt Geol Ges*, 35, 1883, 59-91, pls 2-4. Not seen: ref L F Ward, Distribution of fossil plants, *USGS 8th Ann Rpt*, 1886-87, 1889, pt 2, 820. This and other papers below are on silicified woods.

2004. -----1883 Die fossilen Hölzer Westindiens. *Sammlung Paleontologischer Abhandl*, Ser 1, H 1, 1883, 1-29, pls 1-4. Cassell: Verlag von T.Fischer, 1883. Also separate: 2 p, f, 28 p, 6 f, 5 pls. 30 cm. GS 24-121. Not seen. Ref also by Ward, ibid. Mainly on the famous fossil forest on the Island of Antigua, West Indies.

2005. -----1884 Die Holzopale Ungarns in paläophytologischer Hinsicht. *Mitt Jb königl ungar geol Anstalt*, 7, 1, 1884, 1-43, pls 1-4; separate: Budapest, Gebrüder Legrady, 1884, 43 p, 4 pls, 25 1/2 cm, GS 12-394. Not seen. Ward, ibid, p 724: "the silicified and opalized wood found so abundantly in Hungary has been made the subject of two excellent papers by... Felix."

2006. -----1887 Beiträge zur Kenntniss der fossilen Hölzer Ungarns. Paläophytologischen Studien, *Mitt Jb königl ungar geol Anstalt*, 8, 5, 1887. 145-62, pls 27-27-a. Not seen.

FELLENBERG, LUDWIG RUDOLF von (1809-1878)

Swiss chem & geol; PhD U Giessen, Ger; prof chem & mineralogy Lausanne U 1841-6; researches in own lab; pioneer in application chemistry to archeology. *World Who's Who Science.*

2007. -----1868 Analysen einiger Nephrite aus Turkistan. *Verhandl Schweiz Naturf Ges*, 52. Jahresversammlung, Jahresbericht 1868, p 38-56. Also separately in wrap, 20 p. JSL. Chemical analyses of five specimens from "Guldbagaschen" quarry located on right side Karakash Valley, Turkestan, altitude 12,252 ft; specimens collected by Prof Robert von Schlagintweit & brothers Hermann and Adolf, during their journey into Central Asia, and directly obtained from the celebrated nephrite quarry. This is the first authenticated in-situ nephrites from this deposit to be chemically analyzed. Detailed comments: H Fischer, *Nephrit und Jadeit*, 1880, 259-61.

2008. -----1870 [Analyses of two nephrites.] *Ausserordentlichen Vereinigung der Schweizerische Naturforscher in Interlaken* 12 Oct, 1870, p 138-50. Analyses of an oriental specimen and rolled pebble from a Siberian locality near Irkutsk; "first analysis of Siberian nephrite from the in-situ deposit," H Fischer, ibid, p 277. Not seen. Also in: *Mitt naturf Ges in Bern*, Jg 1870, p 712-44. Not seen.

2009. -----1871 [Analyses of jades.] *Verhandl Schweiz Ges in Solothurn*, 53 Jahresversammlung, Jahresbericht 1869, Solothurn 1870, p 88-104. European and Chinese nephrites and jadeites. Not seen, from H Fischer, ibid, p 978-80.

2010. FEMMEL, GERHARD & HERES, GERALD

Die Gemmen | Aus | Goethes Sammlung | Bearbeiter Der Ausgabe | Gerhard Femmel | Katalog | Gerald Heres | 1977 | VEB E:A.Seemann · Buch-und Kunstverlag · Leipzig

"Goethes Sammlungen Zur Kunst Literatur Und Naturwissenschaft."

8°: 358 p, recte 360 p, two pages of photo plates section not being includ in pag; 19 line drawings of seal impressions as taken from Goethe's letters; 21 line drawings by Goethe; 59 small b&w photos in catalog; 60 photos on pls(8 col). Dull pink unfin cloth, blind stamped Goethe portr front cover; black spine title; green-gray dj with col photo & heavy plastic loose overlay. Catalog & pls sections on glossy paper. 25 x 18.8 cm(9 3/4 x 7 3/8 in). Cut. Bestellnummer 5056606; DDR 35,- Mk. JSL.

Cont: logo; ser tp; tp; publ data; tab cont; history & notes on collect; notes; cat; concord & abbrev; col pl(red wax seal impressions); pls tp; pls; casts, etc, begins on text p 123; sources & citations; biblio(p 314-21, 141 entries); index.

Describes 58 engraved gems in Johann Wolfgang Goethe(1749-1832) collection with details on material, subject, size, etc, preceded by historical notes on the collection and its formation, and with a major portion of the text devoted to autobiographical notes and correspondence which bear upon the acquisition or appreciation of the gems. The photographs, of good quality, are of the actual gems, most as mounted in rings. An interesting group of line drawings depict seal impressions taken from some of the gems and include a series of sketches from the skilled hand of Goethe himself. An unnecessarily complicated, heavily annotated work that is difficult to follow.

2011. FENNER, CHARLES Australites [a series of papers under this title]. *Trans Roy Soc South Austral*, Adelaide, Pt 1, vol 58, 1934, p 67-79; 2, 59, 1935, 125-40; 3, 62, 1938, 191-216; 4, 64, 1940, 305-24. Not seen.

2012. FENNER, D Ueber Topaskristalle von Minas Novas. *N Jb Min*, B-Bd 36, 1913, 704-67; ca 20 fig. JSL. Topaz crystals from pegmatite cavities in Minas Novas region, Minas Gerais, Brazil: most are colorless, rarely blue; 20 specimens examined, giving carefully-detailed crystallography and crystal drawings, with drawings of etch figs. Other literature cited.

2013. FENTSCH, CASPAR BOTTHOLD, presiding
Dissertatio Physico-historica de gemmis quam sub auspiciis divinis, indultu amplissimi collegii phillosophici, in celeberrima Plissina ad d. II. jun. A.O.R. MDCCVI. H.L.Q.C. placido eruditorum examini publice subjecit praeses m. Caspar Botthold Fentsch... respondente Simone Böckelmann... Lipsiae, literis viduae Brandenburgeri [1706?] 24 pp, 19 cm. Dissertation Leipzig? (Simone Böckelmann, respondent). Not seen: USGS Kunz Coll, GS 33-328.

FERBER, JOHANN JAKOB or JACOB (1743-1790)

Swed mining specialist, econ geol; b Karlskrona; stud under Linnaeus, Wallerius, Cronstedt; much traveled inspecting mines, deposits, etc in Germany, France Gt Brit; prof nat hist Mittau, Ger 1774; to St Petersburg 1773; ret to serve King of Prussia 1786. Pogg I, 733; *Biogr Univ*, 14, 311- 12; Zittel, 87-8.

2014. -----1773 Briefe aus Wälschland über natürliche Merkwürdigkeiten dieses Landes, an den Herausgeber derselben Ignatz Edler von Born. Prag: W.Gerle, 1773, 407 p. Not seen, from: Ward & Carozzi, 793; Pogg I, 733,Agassiz II, 402.

2015. ---- 1776, Engl transl, Raspe

Travels | Through | Italy, | In the Years 1771 and 1772. | Described In | A Series of Letters to Baron Born, | On The | Natural History, | Particularly | The Mountains and Volcanos of that Country, | By John James Ferber, | Professor of Natural History at Mietaw in Curland, | and Member of several Literary Societies. | [taper rule] | Translated From The German; | With Explanatory Notes, and a Preface on the present | State and future Improvement of Mineralogy. | By R.E.Raspe. | [rule] | In nova fert animus mutatas dicere formas. | [double-rule] | London: | Printed For L.Davis, In Holbourn, | Printer To The Royal Society. | M DCC LXXVI. [1776]

8°: [2] p + xxxiii, [1], 377, [1 blank]p + [2]p; pi^2, a-b^8 B-Aa^8, Bb^6. 20.6 x 12.5 cm(8 1/8 x 5 in). Cut. JSL; Ward & Carozzi 796; Agassiz II, 402.

Cont: 1/2tp; tp; pref; errata; text; index; other publ bks.

Contains 26 letters in as many chapters, on aspects of natural history in Italy, including observations on minerals, rocks, and fossils, major collections and contents, etc, with considerable material scattered throughout the text on ornamental stones of various types. Ch 16, is entirely on ornamental stones sccn in Rome, while Ch 5 contains much information on cryptocrystalline quartz varieties. Rudolph Erich Raspe(1737-94) & Ignaz *edler* von Born(1742-91), see under their names for biogr details.

2016. -----1776, Fr transl, Dietrich

Lettres | Sur La | Minéralogie | Et Sur Divers Autres Objets | De | L'Histoire Naturelle | De L'Italie, | Écrites par M.Ferber à Mr. Le Chev. De Born. | Ouvrage traduit de l'allemand, enrichi de notes & | d'observations faites sur les lieux, | Par | Mr. le B. De Dietrich, Correspondant de l'académie | royale des

sciences, Secretaire interprete de l'ordre militaire du | mérite, Membre du corps de la noblesse immédiate de la basse | Alsace & Conseiller noble au magistrat de Strasbourg. | [woodcut vignette, a ruined tower] | à Strasbourg, | Chez Bauer & Treuttel, Libraires. | & se vend à Paris, | Chez Durand Neveu, Libraire, rue Gallande. | [double-rule] | M. DCC.LXXVI. | Avec Approbation Et Privilege Du Roi. [1776]

8°: [16], 507, [1]p;)(^{8}, A-Hh^8, Ii^6. Woodcut head- & tailpcs. 19.5 x 12.2 cm(7 3/4 x 4 3/4 in). Cut. USGS Kunz Coll, GS 33-286, which gives an extra leaf, and calls the woodcuts "illus;" JSL; Ward & Carozzi 795; Dewalque 18. Agassiz II, 402.

Cont: tp; Born's pref; transl pref; extract of registry; tab cont; note; text; errata.

Philippe Frederic, *baron de* DIETRICH (1748-1793).

2017. -----1776

Johann Jacob Ferbers | Professors der Naturgeschichte und der Physik bey dem | akademisch. Gymnasium zu Mietau, der Königl. Schwed. | und Grossherzogl. Toscanischen Akadem. der Wissenschaften, | der öffentl. Ackerbau=Gesellschaft zu Vicenza, Padua | und Florenz, und der Naturforsch. Gesellsch. | zu Berlins Mitglieds | Bergmännische | Nachrichten | von den merkwürdigsten | mineralischen Gegenden | der Herzoglich=-Zweybrückischen, | Chur=Pfälzischen, | Wild= und Rheingräflichen | und | Nassauischen Länder. | [rule] | Aucenum est, et veritas inuestiganda; quam etiamsi non | asequamur, omnino tamen proprius, quam nunc sumus, | ad eam perueniemus. | Galenvs. | [rule] | Mietau, | bey Jacob Friedrich Hinz. | 1776.

Not seen; title taken from facsimile reprint below. Agassiz II, 402-3.

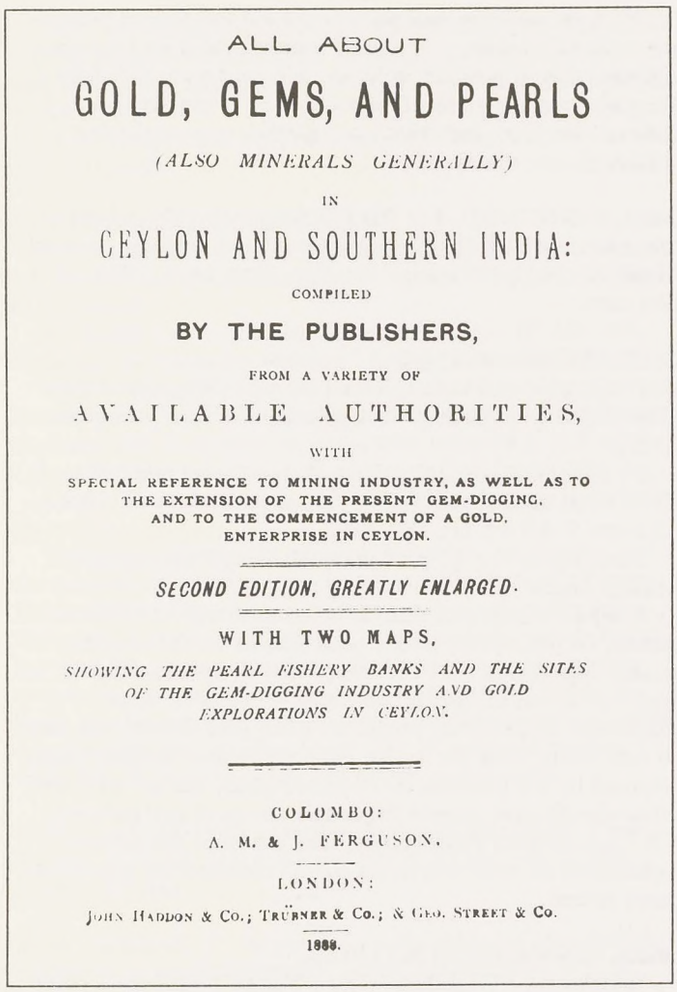
2018. -----1981?, facsimile Bochum: Verlag Rainer Bode. 8°: [16], 94, [2 blank]p;)(^{8}, A-F^8. An engrav pl is called for but not here includ. Dk blue unfin cloth, Old Style Ger title on cover in gold; but press name in modern; modern type in gold on spine. Mottled brownish-yellow dj, title on fron in greenish-brown. 21 x 14.1 cm(8 1/4 x 5 1/2 in). Cut. JSL. Cont: tp; publ data("Exemplar Nr. 186"); dedic; pref; tab cont; 7 chs.

Ferber's travels and what he observed through several principalities of Germany, with remarks on agate deposits, p 5-7, and more details on occurrences, types of agate, chalcedony, jasper, and crystalline varieties of quartz as found in the Idar-Oberstein region, p 12-21, and elsewhere, p 62-3, 74-6. Describes minutely the nature of the amygdaloidal rock in which the agates occur, also the how they occur, the various forms taken by nodules, and speculations as to origin. A brief account of the agate cutting industry is given.

2019. FERGUSON, A M & FERGUSON, JOHN All about gold, gems, and pearls in Ceylon. Columbo, 1881. 8°. Not seen but mentioned by Kunz & Stevenson, *Book of the Pearl* bibliogr.

2020. -----1888, 2nd edit

All About | Gold, Gems, And Pearls | (Also Minerals Generally) | In | Ceylon And Southern India: | Compiled | By The Publishers, | From A Variety Of | Available Authorities, | With | Special Reference To Mining Industry, As Well As To | The Extension Of The Present Gem-Digging, | And To The Commencement Of A Gold, | Enterprlse In Ceylon. | [double-rule] | Second Edition, Greatly Enlarged. | [double-rule] |


ALL ABOUT

GOLD, GEMS, AND PEARLS

(ALSO MINERALS GENERALLY)

IN

CEYLON AND SOUTHERN INDIA:

COMPILED

BY THE PUBLISHERS,

FROM A VARIETY OF

AVAILABLE AUTHORITIES,

WITH

SPECIAL REFERENCE TO MINING INDUSTRY, AS WELL AS TO THE EXTENSION OF THE PRESENT GEM-DIGGING, AND TO THE COMMENCEMENT OF A GOLD, ENTERPRISE IN CEYLON.

SECOND EDITION, GREATLY ENLARGED.

WITH TWO MAPS,

SHOWING THE PEARL FISHERY BANKS AND THE SITES OF THE GEM-DIGGING INDUSTRY AND GOLD EXPLORATIONS IN CEYLON.

COLOMBO:

A. M. & J. FERGUSON.

LONDON:

JOHN HADDON & CO.; TRÜBNER & CO.; & GEO. STREET & CO.

1888.

2020. A very rare work on the gemstones and pearls of Ceylon(Sri Lanka)

With Two Maps, | Showing The Pearl Fishery Banks And The Sites | Of The Gem-Digging Industry And Gold | Explorations In Ceylon. | Double-rule] | Colombo: | A.M. & J.Ferguson. | [rule] | London: | John Haddon & Co., Trubner & Co., & Geo. Street & Co. | [rule] 1888.

4°: ix, 428 p; fold outline map of Ceylon tip-in; fold outline map of Gulf of Mannar tip-in. 1/4 black leather, dk blue cloth, gold lett & rules on spine. 21.4 x 13.8 cm(8 1/2 x 5 1/2 in). Cut. Probably a private binding. JSL.

Cont: tp; poem; prefs; index; text.

Printed in small type this work contains an enormous store of facts and opinions on Ceylon's mining industry and pearl fishery, but because of the compilatory character of the text there is considerable disorganisation and redundancy. Nevertheless, with patient digging, one is able to extract much that is useful, and, in many instances, information that is simply not available elsewhere, especially when it is of a contemporaneous nature. The arrangement places gold first, followed by "mixed" articles in which gems and other economic minerals, eg, graphite, are mentioned along with gold. There follow articles that are largely if not entirely on gemstones, and lastly, a very substantial amount of information on the pearling industry. The material

has been drawn from such sources as local and foreign newspapers, journals, books, government reports, and from interviews. Allibone, *Suppl*, mentions only first edit, and notes that John Ferguson was asst editor, *Ceylon Observer*. A very rare book; I have not seen the first edition nor another copy of the 2nd edition in over twenty years.

2021. FERGUSON, J & FIELDING, P E The origins of the colours of natural yellow, blue and green sapphires. *Austral J Chem*, 25, 1972, 1371-85, 7 fig; *Min Abstr*, 24, 1, 1973, 42. Not seen.

2022. FERGUSSON, J C

Diamonds | and Other Gems | By | J.C.Fergusson | 207 Haas Building | Los Angeles, California | U.S.A. [priv publ 1927]

8°: 155, [1 blank], [4]p; 7 fig (4 on p facing title). Blue cloth, blind border, gold lett & rule on cover & spine. 18.9 x 12.8 cm(7 3/8 x 5 in). Cut. JSL.

Cont: dedic; fig; tp; publ data; tab cont; 7 chs; append; blank p; index.

Random selection of facts & opinions, some very decided indeed, on gemstones, with a good chapter on the practical quality appraisal of cut diamonds, followed by a justification for high cost of cut diamonds, and other chapters on major gemstones. Appendices: properties table, gem defined, old carats vs new metric carat for certain famous diamond weights, duties imposed by US Customs on imported gems, and an "arbitrary" color classification scheme for certain classes of cut diamonds. Ch 7 is a "Critical Bibliography," and expresses the author's opinions in no uncertain terms about contemporary gem books, good or bad.

2023. FERNANDEZ, NATALIE

Rockhound | Walkabout | By | Natalie Fernandez | [orn] | [rule] [Printed and published by Boughtwood Printing House, Birkenhead, Auckland, New Zealand; ca 1967.]

Edgestapled: 134, [f2 blank]p; sketch map; 10 photos on 4 glossy f. Wrap, with pale red photo on cover, black lett; black lett, resume, vita on back cover. 20.3 x 14.2 cm(8 x 5 5/8 in). Cut. JSL.

Chatty account of a New Zealand couple wandering about in Australia for gemstones; visits to agate, opal, and sapphire fields.

2024. -----1981

The New Zealand | [underline] | Rockhound | [underline] | by | Natalie Fernandez M.A. | Auckland | [logo] | Boughtwood Printing & Publishing House Ltd. | 1981

16°: 192 p (last p blank); 102 col photos on 19 glossy f bound-in but not includ in pag; 32 b&w photos; 6 drawings; 9 sketch maps; 1 tab. Bright blue paper over bds, title in white & yellow on cover with circular col photo of author; white spine title. 20.9 x 14.2 cm(8 1/4 x 5 5/8 in). Cut. JSL.

Cont: col photo f; tp; publ data; tab cont; ill lists; ackn; fwd; introd; 9 chs; notes on handcrafting; gloss; biblio(19 entries); blank p.

Pleasant, informal account of author's travels throughout her native New Zealand searching for minerals and gemstones. There are chapters on what is to be found, notable personalities in the field, lapidary work, club activities, fossils, and overseas trips. A handcrafting section provides biographies of persons whose carvings, jewelry, etc are depicted on the color plates, and including the work of Olive Colhour of Seattle, Washington. The comments on collecting sites and what can be found at them impress one as being realistic.

FERNANDO, L J D, see WADIA, D N

2025. FERNIE, WILLIAM THOMAS

Precious Stones: | For Curative Wear: | And Other Remedial Uses: | Likewise | The Nobler Metals. | By | W.T.Fernie, M.D. | Author of "Herbal Simples," "Animal Simples," "Kitchen | Physic," "Meals Medicinal," etc. | [rule] | "O! mickle is the powerful grace that lies | In herbs, plants, Stones, and their true qualities." | [rule] | Charity be a Precious Stone, Devotion is its lustre; if Charity be a rich | Balm, Devotion is its odour; - yea; the odour of sweetness which | comforts Men, and rejoices Angels." | "Philothea." - St.Francis de Sales, 1762. | [rule] | Bristol: John Wright & Co. | London: Simpkin, Marshall, Hamilton, Kent & Co., Ld. | [rule] | 1907.

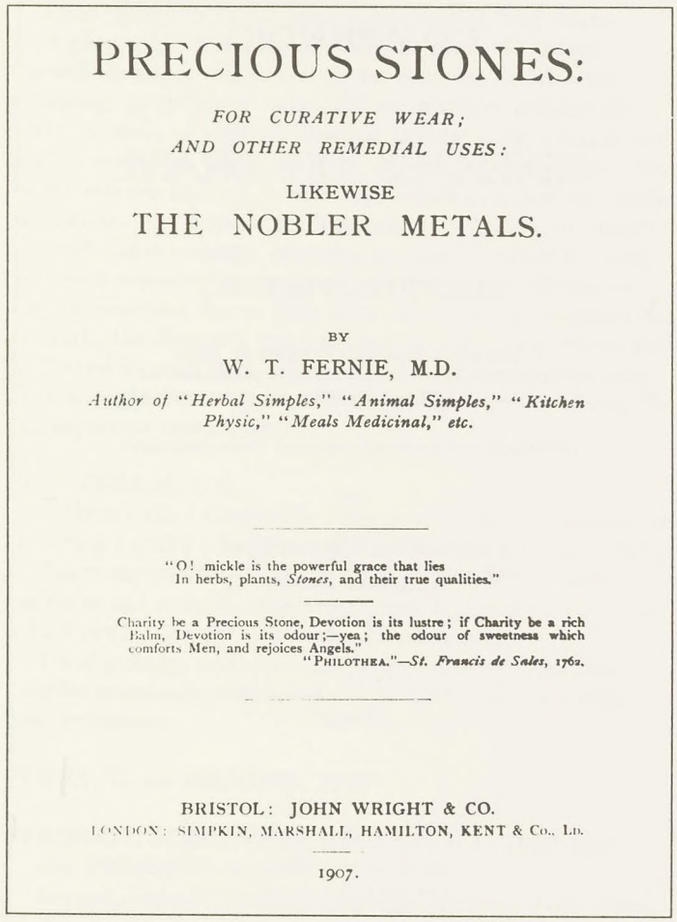
8°: xviii, [1], [1 blank], 486, [1], [1 advert]p. Dk red, vertically ribbed cloth, blind double-rule frame enclosing gold title and blind logo on cover; gold title & logo, rules on spine; back plain. Dk gray endp. 18.2 x 12.3 cm(7 1/4 x 4 7/8 in). Cut. LC A12-345. Reprinted in red cloth but sans blind logo on cover. JSL.

Cont: 1/2tp; tp; publ data; 2 poetry verses; 3 quotes; pref; tab cont; errata; blank p; introd; text; "finis" with 2 poems; blank p; index; advert.

In this most valuable treatise, Fernie strove for and succeeded in assembling a great store of information on curative and other properties of gemstones involved in the healing arts. It is painstaking, erudite, and above all, keenly critical so that the lore contained therein is not merely parroted without comment but carefully balanced against modern medicinal knowledge. However, the text by no means is confined to medicinal matters, and one finds much ancillary material on occult and magical properties of gemstones quite aside from those involved in healing. Many useful quotations from ancient authorities appear in the text, especially those dealing with herbals and medicine. After a lengthy introduction and an essay of considerable value on gemstones in general, Fernie describes specific gemstones and minerals to which curative powers have been ascribed (to p 356) after which he treats the noble metals in similar fashion. An attractive feature of the work is found in the numerous digressions that Fernie makes, some amusing, as in the case of the "Emerald," p 117-22, wherein he takes this space to extol the virtues of whole wheat bread, and on p 190-7, the benefits derived from consuming cheese and its dishes.Despite such peregrinations, the text is a gold mine of facts and contains nuggets not to be mined elsewhere in the gemological literature. Copies of the original are now very scarce, but see reprintings below.

2026.-----1973, reprinted, new title, Blauvelt, N Y

The Occult | and | Curative Powers | of | Precious Stones | By William Thomas Fernie, M.D. | Originally published | in 1907 in England under the title: | Precious Stones: For Curative Wear; | and other Remedial Uses; | Likewise The Nobler Metals | Editorial Preface by Paul M.Allén | Rudolf Steiner Publications | Blauvelt, New York 10913 U.S.A.



PRECIOUS STONES:

FOR CURATIVE WEAR;
AND OTHER REMEDIAL USES:

LIKEWISE
THE NOBLER METALS.

BY
W. T. FERNIE, M.D.
Author of "Herbal Simples," "Animal Simples," "Kitchen Physic," "Meals Medicinal," etc.

"O! mickle is the powerful grace that lies
In herbs, plants, *Stones*, and their true qualities."

Charity be a Precious Stone, Devotion is its lustre; if Charity be a rich Balm, Devotion is its odour;—yea; the odour of sweetness which comforts Men, and rejoices Angels."
"PHILOTHEA."—*St. Francis de Sales, 1762.*

BRISTOL: JOHN WRIGHT & CO.
LONDON: SIMPKIN, MARSHALL, HAMILTON, KENT & Co., Ltd.
1907.

2025. Titlepage to Fernie's still unsurpassed work on the medical lore of gemstones

Cementb: [8], 486, [2 advert]p. Dk blue cloth, gold panel on cover with title in blue, decorated, and series title underneath; gold spine panel with blue & gold lett. 17.8 x 10.8 cm(7 x 4 1/4 in). Cut. LC 71-186770. Also in wrap, pale tan, col drawing of quartz crystal group, black & lavender lett on cover; resume, back cover; black lett spine. 18 x 10.8 cm(7 1/8 x 4 1/4 in). Cut. $3.45. LC no same; ISBN 0-8334-1739 on cover. JSL.

Cont: tp; publ data; edit pref; tab cont & text facsimile; 2 advert p.

The editorial preface adds nothing worthwhile and could have been omitted.

2027 -----1973, reprint, San Francisco & Toronto

The Occult |...|Editorial Preface by Paul M.Allen | [logo, with date of 1817] | Harper & Row, Publishers, San Francisco | Cambridge, Hagerstown, Philadelphia, New York, | London, Mexico City, São Paulo, Sydney

"Copyright 1973 by Rudolf Steiner Publications... Published Simultaneously in Canada by Fitzhenry & Whiteside, Limited, Toronto."

Cementb: [10], 486 p. Bright green cover, white lett on both sides & spine; central rect panel with crystal drawings on front cover; excerpt & resume back cover. 20.3 x 13.5 cm(8 x 5 1/4 in). Cut. LC 80-8894; ISBN 0-06-062360-8. $7.95. The LC number suggests issue in 1980. Reissued in 1982, identical, but with black wrap, large gold/blu/white/red "eye of Horus" plaque on cover. $9.95.

Cont: 1/2tp; other publ bks; tp; print data; pref; tab cont,& text in facsimile.

2028. FERRANDIS, JOSÉ

José Ferrandis | Marfiles | Y Azabaches | Españoles | [rule] | Editorial Labor, S.A.: Barcelona - Buenos Aires [1928; title in red & black]

"Colleción Labor, Sección IV, Artes Plasticas, N° 159-160, Biblioteca De Iniciación Cultural." [series title in red & black]

8°: 270, [l]p; 88 photo pls on 44 glossy f bound-in after text. Brown flecked tan cloth, title in green-blue in triple-rule frame on cover; title & ser title on spine, with rules. 18 x 11.8 cm(7 1/8 x 4 5/8 in). Adverts on all endpapers & flyleaves. JSL.

Cont: 1/2tp; ser tp; tp; publ data; pref; tab cont; text; index; pls tp; pls.

The first section speaks of ivory, its nature and sources, and the methods of working it up into finished objects of all types. This is followed by a history of ivory in Spain from the paleolithic period to historical antiquity and into later periods including the 13th century. The last part is on jet and also provides remarks on its natural history, deposits, its cultural history in Spain, and descriptions and discussions of the objects made from it and widely distributed in Spain. The jet reference number 13, while that on ivory contains 165 entries and is useful.

2029. -----1935-1940 Marfiles Arabes de Occidente. 2 vols, Madrid, 1935-40, 118 p, 67 pls, 308 p, 90 pls; edit of 800 copies. Not seen.

2030. FERRAZ, I As perolas e a sua pesca em Mozambique. *Boletim da Sociedade Geografica, Lisboa*, vol 21, 1903, p 1-20. Not seen.

2031. Not used.

FERRAZ LUIS CAETANO

Brazil min engineer, geol, mineralogist; prof School of Mines, Ouro preto; specialist in econ geol of Brazil.

2032. -----1907 El oro y los diamantes en la América del Sur, Geologia y Mineralogia, Buenos Aires, 2, 1907, 19-47. Not seen; Gonsalves, *Bibliogr Brasil*, 1928, 74.

2033. -----1909 Viagem a Matto Grosso. Considerações geraes sobre as dragagems das alluviões auriferas e diamantiferas desse estado. Contribuções geologicas. Suas riquezas naturaes. *Annaes da Escola de Minas de Ouro Preto*, no 11, 1909, p 55-196. Not seen; Gonsalves, ibid.

2034. -----1923

Compendio | Dos | Mineraes Do Brasil | Em Forma De | Diccionario | Contendo a descripção completa de todos | os minerios e mineraes até esta data encontrados no | Brasil - America Do Sul | (Illustrado com gravuras e mappas chorographicos) | Por | Luis Caetano Ferraz | Engenheiro de minas pela Escola de Minas de Ouro Preto | e actual profesor desta Escola | [orn] | Rio De Janeiro - Brasil | Imprensa Nacional | [double rule] 1928 [double rule]

8°:X, 645, [1]p; front portr pl of H Gorceix + 70 photo pls + 5 color litho pls, all on glossy f, bound-in or tipped-in; 7 maps, 6 fold, part col, bound-in at end of text. Wraps? My copy in 1/4 black leather. 23.3 x 16.5 cm (9 1/4 x 6 1/2 in). Cut.Browning, embrittled paper. JSL.

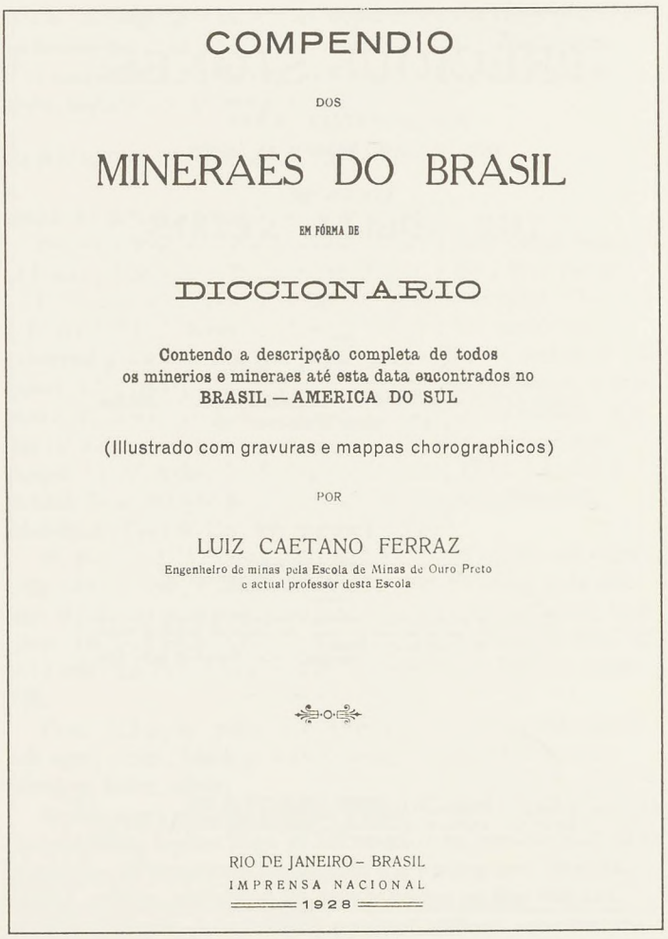
Cont: tp; front pl; pref; pl of coins; abbrev; text; publ data; maps.

Despite its age, the most comprehensive mineralogy of Brazil yet published; it is authoritative, rich in detail, and a gold mine of information painstakingly assembled by the author from many sources and from his own field experiences. In 4 parts: mineralogical, historical, geographical, and bibliographical. The first part describes the minerals, deposits, properties, composition, etc, and cites publications (and extracts from same). The arrangement is alphabetical by species & varieties, p 1-415. The second part is labeled misleadingly "historical" because it actually is a compendium of localities for specific minerals placed under each of the states and amplified with extracts from the literature and including some geological information. The third part, a most important one, p 517-623, is a gazetteer of places previously mentioned and invaluable to the mineralogist/geologist/miner for locating sources of minerals and gemstones. The final part, bibliography, p 625-45, is bio-bibliographical in nature; journals are included. Gemstones are accorded due recognition in appropriate places, especially in the first part, where such as diamond, p 97-133, quartz, beryl, and others, receive full attention although diamond is accorded the most. Many of the plates are poor quality photographs of mineral specimens, many from the author's private collection, but also include views of towns, cities, mining camps, and scenes of mining activity. The 5 color plates are quaint lithographs after photographs of famous spas and include one view of Ouro Preto. The maps are not very useful; one gains the impression that they were the best that could be found and probably were used for some other publication originally. One large map, 59 x 41 cm(23 1/4 x 16 1/4 in), shows the NE portion of Matto Grosso around Diamantina; others show portions of Brazil adjacent to Bolivia, a railroad map, a sketch map of environs of Rio De Janeiro, a colored map of Espirito Santo, another of Municipio Januario, and a map of the Minas Gerais mining districts. A very rare work; the poor paper quality probably means that many copies disintegrated and were discarded.

2035. -----1935, part transl Engl

Some Minerals Of Brazil | Notes on some of the minerals of Brazil with special | reference to Gem Minerals, Semi-Precious stones, rare | minerals and gold as translated from the: | Compendio | dos | Minerales Do Brasil | em Forma de | Diccionario | por | Luiz Caetano Ferraz | Mining Engineer for the School of Mines at Oura Preto [sic], | and at present a professor in the school. | Rio De Janeiro, Brasil | Government Press | 1929 | Translated by Mrs. J.T.Sheridan, under the supervision | of J.E.Peck, A.M., Civil Engineer and Gemmologist, em- | ployed as Planning Engineer for San Diego County by the | California State Relief Administration from May 1st. 1934 | to February 1st. 1935. This work was done under S.E.R.A. | Project 38-F.

Edgesewn typescript: [9], [1], 241 f; insert betw p 103-4 of "Analyses of the veins of iron in the State of Minas Geraes." Titleleaf + 3 fold tabs, bound in olive-green buckram, spine title; pale gray endp. 27.4 x 21.2 cm (10 3/4 x 8 3/8 in). Cut. JSL.



COMPENDIO

DOS

MINERAES DO BRASIL

EM FÓRMA DE

DICCIONARIO

Contendo a descripção completa de todos os minerios e mineraes até esta data encontrados no BRASIL — AMERICA DO SUL

(Illustrado com gravuras e mappas chorographicos)

POR

LUIZ CAETANO FERRAZ

Engenheiro de minas pela Escola de Minas de Ouro Preto e actual professor desta Escola

RIO DE JANEIRO – BRASIL

IMPRENSA NACIONAL

1928

2034. Despite its age it remains the most comprehensive work on the minerals of Brazil; very poor, decaying paper means that few copies survive

Translations of author's preface and selected portions of the first or "diccionario" part with emphasis on the gemstones and on gold. Wording awkward in places due to attempt to be too literal. Total number of copies not known. A relief project during the Depression Years: E.R.A. = Economic Recovery Administration?

2036. FERREIRA, FRANCISCO IGNACIO(1832-1891)

Diccionario Geographico | Das | Minas Do Brasil | [rule] | Contenação De Noticias, | Informaçaões E Descripções As Minas, | Extrahidas De Documentos Officiaes, | Memorias, Historias, Revistas, Diccionarios, Cartas | Geographicas, Roteiros, Viagens, | Explorações De Rios, Ditas De Estradas | De Ferro E Outras | Por | Francisco Ignacio Ferreira | Bacharel em Sciencias Juridicas e Sociaes, | ex-Magistrado, ex-Membro da Assembléa Provincial | do Rio de Janeiro e Chefe de Secção | da Secretaria de Estado dos Negocios da Agricultura, | Commercio e Obras Publicas | [orn rule] | Rio De Janeiro | Imprensa Nacional | 1885

8°: [2], XXVI, 754, [2]p. Paper wrap? My copy in 3/4 red leather. 21.7 x 14.9 cm(8 1/2 x 5 7/8 in). Cropped. LC-17731. JSL.

Cont: 1/2tp; tp; dedic; pref; index; introd; text; errata.

A geographic dictionary of Brazil, by state, of minerals, mineral resources, mines, etc. Under each state appears the following: geographical limits, climate, position, political divisions, localities of minerals arranged alphabetically, minerals and mineral resources, mines, geology, and mining concessions. One of the valuable features os this work, which preceded the similar "Diccionario" of Ferraz (see above), is the inclusion of extracts from official documents, memoirs, journals, dictionaries, maps, explorer's accounts, etc, many of which would be difficult to consult otherwise due to their rarity. Much is said on gemstones, especially the diamond, but searching the text is required to find it. Printed in small type, this book holds far more information than its pagination suggests. Rare. Gonsalves, *Bibliogr Brasil*, 74, "an important compilation."

2037. FERRIS, L C

Pebbles | On | Cornwall's | Beaches | [rule] | identifying & collecting | [rule] | L.C.Ferris | Tor Mark Press [Truro, 1969]

Centerstapled: 28 p, 4 b&w, 2 col photos on 2 glossy f bound-in and includ in pag; sketch map. Col photo wrap. 21.6 x 13.9 cm(8 1/2 x 5 1/2 in). Cut. 20 pence. JSL.

Local geology, rocks, and the pebbles derived thereform, Cornish gemstones, where to look for them, forming a collection, references.

FERRY, C, see MARBOD, 1877

FERSMAN, ALEKSANDR EVGENEVICH(1883-1945), also FERSMAN, A von

Russ geol, geochemist, mineralogist, gemologist, popularizer of earth sciences; b St Petersburg; stud Moscow U under Vernadsky; asst in Mineral Mus, Acad of Sci; dir in 1919; earlier years spent in Paris stud under Lacroix, later under H Rosenbusch and V Goldschmidt in Heidelberg. The use of the German "von" in some publications eg, "Diamant," is in error; there is no evidence that Fersman was ever a member of Russian nobility. Fersman developed a strong interest in granitic pegmatites and became a pioneer in their formal and systematic study; from earliest years he also developed a similar pervasive interest in gemstones, especially those found in Russia and the USSR. His later career was marked by intensive study and publication of numerous important papers on geochemistry, many again being of a pioneering status. He traveled extensively throughout the USSR before and after the Revolution and much of his work embodies firsthand knowledge gained as a result. He named 19 new minerals, while the species, fersmanite, was named after him. Elected to the Academy of Sciences in 1919, he later received the Lenin and Stalin prizes, and in 1943, the Wollaston Medal of the Geological Society of Great Britain. Because of his interest in stones, about which he often waxed lyrical, Tolstoi called him the "poet of stones." Fersman's last years were spent in poor health; he died in Sochi, Black Sea, 1945. Engl biogr: *Doklady Akad Nauk, Internat Edit*, 47, 1945, 607-10;see also L J Spencer biogr note *Min Mag*, 28, 199, 1947, 191-2; biogr notes in pref to *Akad A E Fersman, Izbrannye Trudy*, 1, 1952, and 2 arts on his works in *Kristallografiya Almaza*, 1955, 490-546. See also D I Shcherbakov *A E Fersman I Ego Puteshestviya*, 1950, and O Pisarzhevskii *Aleksandr Evgenevich Fersman, 1883-1945*, 1945 (with short title list of works). Mem in *Amer Min*, 31, 3/4, 1946, 173.

2038. -----1912 Almaz, ego kristallizatsiya i proiskhozhdenie. *Priroda*, St Petersburg, 5, 1912, 623-40. Crystallography & origin of diamond. Not seen.

2039. -----1912 Za tsvetnymi kamyami. Ocherk dobychi dragotsennykh kamnei na Urale. Ibid, 9, 1912, 1045-60. On colored stones: the plunder of the Urals. Not seen.

2040. ----1921

A.E.Fersman [underlined] | Samotsvety Rossii | Tom I | Tsikl lektsii, chitannykh v Komissii Proisvoditelnykh Sil Rossii | Rossiiskoi Akademii Nauk v 1919 g. | Petrograd | 1921

Wrap date is 1920, title 1921, and pref dated 1920; only one volume issued.

8°: 212, [2], [2 blank]p. Pale brown print wrap. 23.8 x 16.6 cm(9 1/2 x 6 1/2 in). Uncut. Badly browning, embrittled paper. 3,000 copies. JSL. LC 51-48804.

Cont: tp; publ data; pref; [17] chs; tab cont; blank f.

Fersman's first large work on Russian gemstones, that is, the "self-colored" stones, or colored gemstones, and forming the first volume of a projected lecture series published by the Academy of Sciences to acquaint the populace with the country's natural resources. The text begins with a first chapter on gemstones in general, then it takes up red, green, blue stones, then jaspers, nephrite, and the jade stones, with chapters on the famous gem pegmatite mines in the Mursinka area of the Urals, gem pegmatites in the Ilmen Mountains, searching for stones in Siberia, the gemstones of Transbaikalia, the Peterhof lapidary works, stones in Middle Ages culture, stones in succeeding periods and today, and the prospects for the future. The entire work, written in easily assimilable style for the general public, established Fersman's style for future works in which he mixes anecdote, travel, lore, and scientific data into palatable literary masterpieces. This work, published only in 3,000 copies, is very rare, owing that state in no small measure to the extremely perishable paper upon which it was printed. Compare this work with those that follow and it will be seen that all are similar in the way information is presented.

2041. -----1922

Monografii Komissii Po Izucheniyu Estestvennykh Proisvoditelnykh Sil Rossii | Rossiiskoi Akademii Nauk. | [double rule] | Dragotsennye I Tsvetnye | Kamni Rossii | A.E.Fersmana | pri sodeistvii sotrudnikov otdela dragotsennogo kamnya komissii: N.I.Vlodavets, (opis. | Peterg. fabriki i abrazion.mater.), R.B.Rossienskaya (mramory), V.V.Mostovenko |(Ekaterib. fabrika), F.P.Birnbaum(firma Faberzhe), E.O.Romanovskii (deyatelnost | Permikina), P.N.Stolpyanskii (istoriya Peterburgskikh zdanii), L.F.Batsevich (arkhivy), | V.I.Vlodavets (arkhivy), V.A.Unkovskaya (arkhivy, osmotry dvortsov-muzeev), D.V.Yufe- | rov (arkhivy), E.V.Eremina (flyuorit). | Risunki i chertezhi vypolneny khudozhnitsei komissii Almoi Bonshtedt. | Tom.I. | Petrograd. | 4-Ya Gosudarstvennaya Tipografiya. | 1920.

On the precious and colored stones of Russia, in 2 volumes. The cover wrap states "1922," the title "1920," and the preface is dated 1921. In the preface to vol II, the date of publ is given as 1922.

8°: 420 p; 24 fig(sketch maps, crystal drawings); 4 pls on heavy white, glossy paper, bound-in, and bearing 15 fig. Pale yellow print wrap. 26 x 19 cm(10 1/4 x 7 1/2 in). Cut. 2,000 copies. JSL. LC 52-40234.

Cont: tp; print data; pref; text tp; introd; text; appends; summary table, indexed; addits & notes; indexes; tab cont;

corrections; caption to pl figs; pls.

This monumental work, still unsuperseded even by modern works published in the USSR, was prepared by Fersman to place on record all of the important facts that he could locate on the gemstones of the USSR for the purpose of publicizing these resources and encouraging exploitation to aid the economic recovery after the Revolution. Unfortunately, these goals were never carried out and active exploitation of gemstone resources had to wait for many years after World War II before anything was done about them. The first volume describes gemstones of all classes, stressing genetic types of deposits and giving specific data on sizes of crystals or masses of gem materials, their qualities, and features, and indicating which sources are regarded as most promising. Each species/variety is accompanied by a valuable list of pertinent references. Arrangement is alphabetical, according to the Cyrillic alphabet. Text maps are provided for important productive areas or regions as diamond, corundum. pegmatites, etc. The plates depict crystals of diamond, pegmatite section at Mursinka, crystals of topaz and beryl, and rock types. The gemstones treated are diamond, corundum, spinel, chrysoberyl, beryl, euclase, phenakite, topaz, zircon, garnet, tourmaline, opal, turquoise, olivine, cordierite, vesuvianite, kyanite, staurolite, epidote, dioptase, sphene, marbles, sodalite, lazurite, obsidian, asbestos(!), nephrite, rhodonite, micas, quartz varieties, and some others, of which some are of doubtful merit as either gemstones or ornamental materials. Extracts from this volume were printed in *Zs Prakt Geol*, Berlin, 37, 1929, p 209-16, 2 figs(maps). The indexes to this volume are remarkable for including lists of species/varieties, persons or authorities mentioned in the text, one such index in Russian and another in Latin characters, a geographical index and an index of museums. Volume 2 described separately as follows.

2042. ------ 1925, vol 2

Monografii | Izdavaemye Komissei Po Izucheniyu Estestvennykh Proizvoditelnykh Sil SSSR | Pri Rossiskoi Akademii Nauk | [rule] | Monografiya 3 | Dragotsennye I Tsvetnye Kamni | SSSR | Akad.A.E.Fersman | Tom II | Mestorozhdeniya | [rule] | Leningrad | 1925

8°: [2], 386 p; 9 tip-in fold maps; 21 fig(maps, one fold, tip-in). Pale gray print wrap. 27.8 x 20 cm(10 7/8 x 7 7/8 in). Cropped. Paper of much better quality, whiter, stronger. 1,000 copies. JSL. LC 52-40234.

Cont: acad title(with logo) tip-in; tp; publ data with pasted-in press run slip; introd; text; indexes(of minerals, persons & authorities, geographical names); errata; list of maps; tab cont.

This second volume is on occurrences or deposits of gemstones and is as thorough and detailed as the first volume. It is printed on vastly better paper but now only 1,000 copies were struck off, possibly to deliberately restrict circulation due to the locality information contained therein. The text begins with descriptions of type deposits in general terms, then progresses to details on deposits in Russia, Ural Mountains, Siberia, and regions in the Asiatic USSR. A very large section is given to the famous emerald mines in the Urals and the gemstone pegmatite areas in these mountains and elsewhere, which discussions provide the bulk of the text. As in the first volume, the references are unusually complete and provide the best sources for further study of Russian language writings on gemstones in this and earlier periods. The folding maps show deposits in the Kiev area of the Ukraine, Ural Mountains(emerald mines and pegmatite areas), Ilmen Mountains, Sanarka, Altai Mountains, and Transbaikalia region. Most space is naturally devoted to descriptions and discussions of gemstones occurrences in granitic pegmatites, in which Fersman was most interested and from which the major production of important Russian gemstones occurred.

This entire work was reprinted in *Akademikh A E Fersman, Izbrannye Trudy*, vol 7, 1962, p 7-531, 22 fig, 2 instead of 4 pls tip-in in vol 1, 27 figs(6 fold maps instead of 9) in vol 2. All the figures and maps were redrawn, the latter without any lines of latitude/longitude, nor distance scales, presumably to prevent pinpointing. Some figures were omitted. The text is now heavily annotated and some of the tables and indexes moved or rearranged. The *Izbrannye Trudy* is described below.

2043. -----1922 Almaz "Shakh." *Izvestiyakh Rossiskoi Akademii Nauk*, Petrograd, ser 6, vol 16, 1922, p 451-62, fig, pl. Also in Engl as an offprint from *Bull de l'Acad Sci de l'URSS*, 1922, "The diamond "Shah", p 451 & issued in plain wrap, 12 p, 3 text fig, photo pl(7 fig). Also reprinted in *A E Fersman, Krystallografiya Almaza*, see below, p 451-66, 3 fig, tip-in photo pl(7 fig), with notes to p 561. The first and only adequate firsthand description and with historical details, corrections to previously published information, and drawings and photographs taken from several aspects, the weight, and the Arabic inscriptions and meanings. The stone is in the Diamond Fund, USSR.

2044. -----1923

Materiali Dlya Izucheniya | Estestvennykh Proizvoditelnykh Sil Rossii, | Izdavaemye Komissiei Pri Rossiiskoi Akademii Nauk | [rule] | N° 46 | Izumrudnye Kopi | Na Urale | Sbornik Statei I Materialov | Pod Redaktsei Akad.A.Fersmana | (S Prilozheniem 1 Karty I 2 Tablits). | Petrograd | 1923

Title states "No 46" but wrap states "No 44."

8°: 82, [6]p; last p blank; 2 pls on last 2 f; fold map tip-in (52.7 x 30 cm). Pale gray print wrap. 24.7 x 17.3 cm(9 3/4 x 6 3/4 in). Fe cut. 500 copies. JSL.

Cont: tp; publ data; edit pref; 9 contribs; tab cont; pls. fold map.

On the history and development of the Uralian emerald mines with details on geology & mineralogy and mining attempts. The first four contributions by Fersman are archival, that is, they provide the early history of discovery and exploitation and cite contemporary records in support. An article by N S Mikheeva discusses labor costs, another by P N Deeva and N S Mikeeva describes the geology and workings of the Troitsky mine in much detail. An article by mining engineer P M Yudinsova describes the exploitation of the deposits during 1911-13, with a cross-section of the mine and details on costs; S S Smirnova similarly provides data on the mines for 1916-7, and V A Voznesenskogo describes conditions as of 1920. The two plates show details of rock types encountered in the Troitsky mine and are correlated to the folding map that shows a plan section of the mine and the shafts, plus rocks encountered and their configurations.

2045. -----1924-26 Almaznyi Fond SSSR, vypusk 1-4, Moskva, Izdatelstvo Nar Kom Fin 1924-1926. Fr edit: "Les joyaux du tresor de Russie," Moscou: Commisariat Nationale des Finances. The following from T.Heneage, London, Catalogue 4, 1985, no 82: "Russia's Treasure of Diamonds and

Precious Stones." 4 Parts. Moscow: The People's Commisariat of Finances, 1925-26. Portfolio, containing 32, 25, 30, and 37 text pp. and 100 "superbly produced monochrome plates photographed by A.N.Alexandrov, many with full size illustration of the jewels and each interleaved in tissue printed with a brief description." Limited edit in English, 350. 41 x 32 cm. Not seen.

2046. -----1925 [Historical stones of the "Diamond Treasure".] *Izvestiyakh Rossiskoi Akademii Nauk*, Petrograd, ser 6, vol 19, 1925, 721-30, 1 pl(5 photos). An Engl language version: "Historical Stones of the "Diamond Treasure." Plain wrap: p 721-30, with photo pl. Fersman states "I intend to give in this essay the most exact mineralogical and historical description of the separate, largest stones of the "Diamond Treasure" which, doubtless, occupy one of the most important places among other historical ones we know. These are Table diamond, 23-25 ct, Orlov of 194.75 old carats, Shah of 88.70 carats, octagonal diamond in the great crown of Catherine II of ca 57 ct, a solitaire diamond ca 54.70 ct, a "high rose" in the imperial orb of 46.92 ct, large briolette of 40.50 ct, and other smaller diamonds. There is also a step-cut emerald of 135.25 ct (No.174/13) of very fine quality. Other emeralds, but from the Urals are described as well as stones from Colombia. Other outstanding stones include a blue sapphire of 260 ct, peridot of 192.75 ct, a large red spinel in the crown of Catherine II of 414.3 ct.

2047. -----1925 Istoricheskiy Almaz "Orlov." *Izvestiyakh Rossiskoi Akademii Nauk*, Petrograd, ser 6, vol 20, 1925, 121-32, fig, pl(4 photos). Engl language offprint from *Bull de l'Acad Sci l'URSS*: "The historical diamond "Orlov"." Plain wrap, p 1-12, text fig, pl. Also reprinted in *A E Fersman, Kristallografiya Almaza*, 1955, see below, p 467-84, 1 fig, 1 tip-in pl. Gives history, crystallography, etc, and corrects misstatements about same; the plate shows 4 different aspects as mounted in the imperial scepter.

2048. -----1926 Dragotsennye i tsvetnye kamni. In: *Nerudnye Iskopaemye*, Tom I, Akademiya Nauk, Soyuza Sovetskikh Sotsialisticheskikh Respublik, Komissiya Po Izucheniyu Estestvennykh Proizvoditelnykh Sil SSSR, Leningrad, 1926, p 359-400. JSL. Basic publ consists of 4 cloth volumes on the "Non-Metallic Resources" of the USSR, 1926-29, taking up the materials in alphabetical order as written by a number of experts. Fersman's contribution on colored and precious stones provides general remarks, type deposits, world sources, economic considerations, values and pricing trends for cut stones, imitations and synthetics, a large glossary annotated, occurrences in USSR, deposits, production figures, and other data, with 21 references.

2049. -----1927 Mramor. *Nerudnye Iskopaemye*, II, 1927, p 293-330. On marbles. Also separately issued: centerstapled pamphlet, pale green wrap, cover title, p 293-330. 23.2 x 15 cm(9 1/8 x 5 7/8 in). Cut. JSL.

2050. -----1927 K mineralogii pegmatitovykh zhil srednego Urala. *Trudy Mineralogicheskogo Muzeya Akademii Nauk SSSR*, Leningrad, 2, 1927, 101-24, figs, pls 1 & 2(crystal drawings). Also in Fr. On type crystals of topaz from pegmatite vugs of the Mursinka area, Urals; lists forms, gives references.

2051. -----1928, Zanimatelnaya Mineralogiya series

Zanimatelnaya Mineralogiya [Interesting Mineralogy].Leningrad: Vremya, 1928. 8°: 318 p, 100 fig. 2 r 40 k. Not seen; this appears to be the first appearance of this extremely popular and much reprinted work.

2052. -----1931, Ger edit

A.Fersman | Mitglied der Akademie der Wissenschaften zu Leningrad | Unterhaltende | Mineralogie | Mit 100 Abbildungen | [logo] | "Wremia" | Kooperative Verlagsanstalt [Leningrad, 1931]

8°: 293, [7]p; 100 fig(line drawings, photos). Stapled sections. Dk mottled green paper, resembling serpentine, over bds; silver orn title in front cover center; spine silver title; spine and corners covered with tan paper. Patterned gray & white endp. Also in wrap, front cover with miner drilling in a tunnel; other variant bindings seen. 19.2 x 13.7 cm(7 5/8 x 5 3/8 in). Cut. JSL.

Cont: tp; print data; fwds; 50 chs; mineral index; tab cont.

Very popular work embodying much that is fascinating about minerals and gemstones and presented in an easy, comfortable style almost completely free of technical data and figures. Treats stone in nature and in the city, what minerals are, their natural histories, precious stones, wonders of the stone world, stone in the service of mankind and the "friend of minerals", that is, the collector. Principal references to gemstones in the fourth part, p 129-62, and treat diamond, including famous stones, some in the Diamond Fund of the USSR, rock crystal, topaz and beryl of the Urals, the emerald mines, the history of gemstones, and how gems are imitated. Other references appear in the text in the section entitled "The Jeweler's Window," p 43-59. There are many unusual older photographs but as usual in these earlier productions of the Soviet press, they are poorly reproduced.

2053. -----1933, Russ edit 8°: 299 p, 1 col pl, 100 fig. Omits crown jewel matter but adds other information; 19 p less than prev Russ edit; color pl is new.

2054. -----1935, another Russ edit Publisher: "Molodaya Guardiya," Leningrad. 8°: 252 p, 1 col pl, 99 fig. 4r 50 k. Almost ident to above.

2055. -----1937, another Russ edit

Akad.A.E.Fersman | Zanimatelnaya | Mineralogiya | [photo vignette] | Tsentralnyi Komitet | Vsesoyuzhnogo Leninskogo Kommunisticheskogo Soyuza Moledezhi | Izdatelstvo Detskoy Literatury | Moskva 1937 Leningrad [title in green & black]

8°: 239, [1]p; col litho front pl tip-in + 4 others tip-ins; 184 fig (photos, sketches, maps). Green cloth, orn & ruled frames on cover in green & brown; green & gold title; central vignette of malachite; black spine title. Marble photo endp in olive-green tones, veined. 29 x 22.6 cm(11 1/2 x 8 7/8 in). Te stained green. Cut. Cloth 8 r, paper 2 r. 25,000 copies. JSL.

Enlarged & elaborated, perhaps the handsomest of the lot, and now containing a glossary of technical terms and a map showing principal mineral localities in the USSR.

2056. -----1949, Ger edit; title change

A.E.Fersman | Verständliche | Mineralogie | [logo, to left] Verlag Neues Leben Berlin [1949]

8°: 287, [1]p; 195 fig, 2 sketch maps, 1 fold map(part col) tip-in at end of text. Dec paper over bds, cloth spine, title in brown on cover & spine. Col dj, resume, other publ bks. 24 x 17.2 cm(9 1/2 x 6 3/4 in). JSL.

Cont: 1/2tp; tp; publ data; tab cont; introd; biogr sketch of Fersman; fwd; 7 chs; biblio(p 275-6, 30 entries); list of institutes; gloss; mineral localities in USSR; fold map + errata slip.

Trans by E Sabel. Principal refs to gemstones in Ch 4, p 125-50, "Gemstones and stones, used in technology," and include diamond, rock crystal, topaz and beryl of the Urals, emerald mines, and a section on the histories of the Shah and Orlov diamonds. Superior quality illustrations. On the whole, an attractive work; the paper over the boards is printed in an overall pattern of graphic granite.

2057. -----1953, another Russ edit, called "3rd," [sic]

Akademikh | A.E.Fersman | Zanimatelnaya | Mineralogiya | Izdanie | trete | [photo, topaz on matrix] | [pale green orn rule] | Gosudarstvennoe Izdatelstvo | Detskoy Literatury Ministerstva Prosveshcheniya RCFCR | Moskva 1952 Leningrad [title in pale green & black]

8°: 272 p; col front pl tip-in + 10 pl(9 col) tip-ins; 176 fig; fold map tip-in at end. Dk green cloth, gold title surrounding a colored cut-out pasted to front cover; gold lett spine; malachite-pattern endp. 21.5 x 14.5 cm(8 1/2 x 5 3/4 in). Cut. 7,500 copies. 10 r 73 k. JSL.

Cont: pl; tp; Fersman biogr; introd; text tp(part col); 7 chs(each with similar col tp); gloss; tab cont; publ data: fold map.

Attractively bound but paper yellowing and photos poorly reproduced. Color plates depict precious and ornamental gemstones.

2058. -----1959, another Russ edit

Akademiya Nauk SSSR | [taper rule in purple] | Akademikh | A.E.Fersman | Zanimatelnaya | Mineralogiya | [orn] | Izdatelstvo Akademii Nauk SSSR | Moskva 1959 [title in pale purple]

8°: 237, [2]p; front col pl tip-in + 7 other tip-in pls; 113 fig. Tan unfin cloth, title in gold & brown on cover with brown crystal group; gold & brown spine title. Col dj, resume. 21.8 x 14.5 cm(8 5/8 x 5 3/4 in). Cut. 10 r 35 k. 25,000 copies. JSL.LC 60-30494.

As with previous editions, this too shows minor changes in the text apparently according to what the editors believe readers should be exposed to; this work now is a mere skeleton of Fersman's original, fleshed out by others.

END OF ZANIMATELNAYA MINERALOGIYA

2059. -----1929

Geochemische | Migration der Elemente | und deren wissenschaftliche | und wirtschaftliche Bedeutung | erläutert an vier Mineralvorkommen: | Chibina=Tundren - Smaragdgruben | Uran=Grube Tuja=Mujun - Wüste Karakumy | von | Prof.Dr.A.Fersman | Mitglied der Akademie der Wissenschaften | Leningrad | Teil I | Mit 22 Figuren im Text und 4 Tafeln mit 11 Abbildungen | [logo] | Verlag Von Wilhelm Knapp · Halle(Saale) | 1929

At head of title: "Abhandlungen zur praktischen Geologie | und Bergwirtschaftlehre | Herausgegeben von Professor Dr.Georg Berg | Landesgeologe Berlin | Band 18 | [double-rule]... "

8°: VIII, 116 p; 11 photos on Pls I.-IV.(2 f); 22 fig. Pale greenish-gray print wrap. 24.3 x 16.5 cm(9 5/8 x 6 1/2 in). Uncut. JSL. GS 29-377.

Cont: tp; sketch map, tp to first pt; fwd; tab cont; introd; text in 3 sections; pls.

Excellent work on the genesis of the emerald deposits In the Urals, p 74-116, figs 14-22, with 5 photos on Pls III-IV (mining activity). Fersman describes the location, local geography, geology, enclosing rocks, and the mineralogy of the deposits, and then discusses the geochemistry and the sources of the mineralization required to form emerald, the conditions of formation, and compares same to other emerald deposits in the world. This paper is important for establishing a model for the genesis of these schist-type deposits. References include 25 on the Uralian deposits, and another 29 on emerald deposits elsewhere.

2060. -----1936 Tsveta mineralov [Colored minerals]. Moskva: Izdatelstvo Akademii Nauk SSSR, 1936, 159 p, 1 col pl, 9 text fig. 5 r. Not seen. Reprinted in *Akademikh A E Fersman, Isbrannye Trudy*, Tom VII, 1962, p 533-86, col pl showing strips of colors & spectra; 5 tab; 9 fig. JSL. Nature and causes of coloration in minerals, including gemstones, with specific remarks on the latter, p 546-50. Discusses chromophores, atomic structures, electronic influences; reviews previous work, with a bibliography. USGS Libr.

2061. -----1940 Vospominaniya o Kamne [Reminiscences of Stones] series. First edit, Moskva: Goslitizdat, 1940, 8°: 138 p. Not seen. Other edits 1943, 1945, 1946(4th? edit), Moscow: Molodaya Guardiya, 174 p, 4 r 50k. Not seen.

2062. -----1948, Ger edit

Akademiemitglied A.E.Fersman | Erinnerungen An Steine | [orn] | SWA-Verlag/Berlin 1948

12°: edgestapled: 101, [3]p. Wrap, marble-type yellow & brown pattern, yellow rect panel enclosing title in brown & black on cover. 20 x 12.8 cm (7 7/8 x 5 in). Cut. RM 1.- JSL.

Cont: tp; publ data; fwd; 19 chs; remarks; tab cont; advert. The "remarks" 2 leaves and pasted-in between the last 2 leaves of the last section.

Transl by L F Nebenzahl. More Fersman reminiscences written in popular style and with a minimum of technicality. These essays are of particular interest: Ch 1, "Sparks of the Past," dealing with marbles of Greece where the author was taken for a visit by his father and with observations on a magnificent ball in Moscow and the jewels seen there, plus other anecdotes; Ch 8, "Testa Nera," refers to the "black tops" or black-capped tourmaline crystals from pegmatite vugs on the Island of Elba where Fersman visited and here recounts his studies on the geology and mineralogy and interviews with inhabitants; Ch 13, "Oberstberg," refers to the famous colored jaspers of Orsk in Russia; Ch 16, is on diamond, and Ch.18 on precious stones.

2063. -----1953, another Russ edit.

A.E.Fersman | Vospominaniya | O Kamne | [col taper rule] | [vignette: quartz crystals] | [col taper rule] | Izdatelstvo TsK VLKSM | "Molodaya Gvardiya" | 1953 [Moskva; title in orange & black]

8°: 189, [3]p; ch head- & tailpc drawings. Bright orange paper over bds, brown cloth spine dec in gold & orange, orn frame enclosing title on cover and with rough & cut gems in natural colors above & below. 14 x 11 cm(5 1/2 x 4 3/8 in). Cut. 2 r 50 k. 75,000 copies.

Cont: tp; pref; 19 chs; notes; index; publ data.

2064. -----1958, another Russ edit

A.E.Fersman | Vospominaniya | O Kamne | [quartz crystals] | [rule] | Izdatelstvo Akademii Nauk SSSR | Moskva · 1959. [title in magenta & black]

8°: 165, [3] p; 3 glossy col vls tip-in; new head- & tailpc drawings. Col wrap. 19.5 x 12.7 cm(7 5/8 x 5 in). Cut. 30,000 copies. 2 r. LC 59-32200.

Cont: ser tp; tp; introd; pref; 21 chs; notes; index; publ data.

Chs unnumb; 2 added: collecting in the Pamirs and the Shah diamond. Col pls borrowed from Fersman's *Ocherki po Istorii Kamnya*, see below, and depict gemmy col tourmaline crystals on matrix from Elba, carving of fruits and leaves, and slab of lapis lazuli. Identical reprint dated 1960 and at same price.

END OF VOSPOMINANIVA O KAMNE

2065. -----1942 Ural - sokrovishchitza sovetskogo soiuza. Moscow, 1942, 60 p; includes remarks on Uralian gemstones. Not seen.

2066. -----1945 Istoriya kamniya v Rossii. *Obschee Sobranie Akademii Nauk SSSR*, 14-17, Okt 1944, Moscow & Leningrad, 1945, p 168-84. Not seen.

2067. -----1946 Jewels of the Russian Diamond Fund. Transl by Marie Pavlovna Warner. *G & G*, 5, 8, 1946, 363, 372-6; 9, 1947, 403-5; 10, 432-4; 11, 467- 70, ill. Translated from *Novyi Mir*, Moscow; date not given. JSL.

2068. -----1946

Akademiya Nauk SSSR | [rule] | Sovet Nauchno-Tekhnicheskoy Propagandy | Akademikh A.E.Fersman | Iz Istorii | Kultury Kamnya | V Rossii | [orn] | [rule] | Izdatelstvo Akademii Nauk SSSR | Moskva 1946 Leningrad

8°: 73, [3]p; 18 photos on 9 glossy bound-in f + 1 bound-in fold pl; 17 fig. Stapled sections. Tan, heavy paper wrap, brown & black title in orn frame on cover; spine & back plain. 19.5 x 13 cm(7 5/8 x 5 1/8 in). Cut. 4 r. 25,000 copies. JSL. USGS Libr.

Cont: tp; 2 quot; 10 chs; concl; notes; 27 ref; tab cont; publ data.

On the cultural history of Russian stones in a series of anecdotes, ie, Stone Age culture and the use of stone, uses in subsequent ages, uses and importance of stones in the Urals and more specifically in the Mursinka region where gemstones occur, 18th century developments, scientific mineralogy, the cottage industries in lapidary work in Russia, contemporary work, and notes. Illustrations mostly of buildings/monuments but also of Orlov diamond, rough & cut gems, scenes, persons, with the fold pl a view of Lenin's tomb in Red Square, Moscow.

2069. -----1952 Rasskazy O Samotsvetakh[Tales of gemstones] series. Edited, with additions, by E S Sinegub and D I Shcherbakov, Moscow & Leningrad: Governmental Publishers of Children's Literature, Ministry of Education, R S F S R, 1952. 8°: 210 p; 6 pls(5 col), 1 fold tab; 134 fig. Not seen. First edit.

2070. -----1957, a later edit

Shkolnaya Biblioteka | Akademikh A.E.Fersman | Rasskazy | O | Samotsvetakh | Gosudarstvennoe Izdatelstvo Detskoy Literatury | Ministerstva Proisveshcheniya RSFSR | Leningrad | 1957

8°: 257, [3]p; col front pl tip-in + 13 col pls tip-ins; 14 photos on 7 tip-in f; 98 fig; 1 loose fold tab. Paper covered bds, front cover an elaborate chessboard pattern with small gems & objects in cells, enclosing title, malachite borders; back cover plain pale gray; tan cloth spine with black & yellow dots, tan lett. 22 x 17 cm(8 5/8 x 6 5/8 in). Cut. 10 r 5k. 100,000 copies. JSL. USGS Libr.

Cont: pl; tp; Fersman biogr; introd; author pref; 14 unnumb sects; gloss; tab cont; publ data.

Another remarkable compilation of Fersman articles, essays, etc on a large variety of topics and wide diversity of interesting illustrations: cultural history of stones in Russia, colored and precious stones of Russia, the diamond, red and green gemstones, nephrite, lapis lazuli, quartz and its varieties, marbles and jaspers, amber, pearl, stones in the future, and the Russian treasure of precious stones. The color plates, unfortunately quite blurry, depict large and small objects carved or covered with malachite, lapis, and other massive materials, rough & cut faceted & cabochon gems, gem mineral crystals, agates, amber, etc. A similar diversity exists in the black and white illustrations which now include many borrowed from foreign books without acknowledgement. The paper is of poor quality and decomposing badly.

2071. -----1961, another edit

Akademiya Nauk SSSR | [taper rule] | Akademik | A.E.Fersman | Rasskazy | O Samotsvetakh | [orn] | Izdatelstvo Akademii Nauk SSSR | Moskva | 1961 [title in pale blue and black]

8°: 259, [5]p; errata slip; front col pl + 13 others all tip-ins; 124 fig. pale blue cloth, black & gold lett & dec on cover & spine; col dj. 21,6 x 14.5 cm(8 1/2 x 5 5/8 in). Cut. 1 r 25 k. 20,000 copies. JSL,

Cont: pl; tp; introd; 14 sects; gloss; tab cont; publ data; advert.

Text rearranged and rewritten in places; additions to diamond section to reflect recent discovery Yakutian diamond deposits; some col pls changed or altered in background hue.

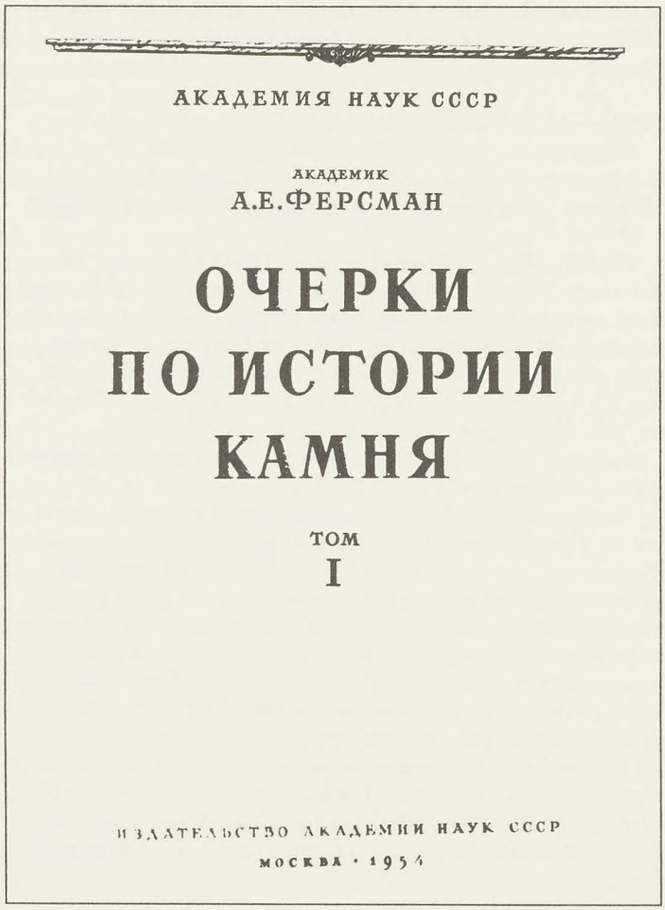
2072. -----1974, 2nd[sic] edit

A.E.Fersman | Rasskazy O Samotsvetakh | [star] | Izdanie Vtoroe | [logo] | Izdatelstvo "Nauka" Moskva 1974

8°: 253, [3]p; front portr pl of Fersman, tip-in; 20 col photos on 10 glossy f tip-in & sewn-in; 74 fig. Tan cloth, gold title on brilliant gem on cover; blue panel & gold lett spine. 21.5 x 14 cm(8 1/2 x 5 1/2 in). Cut. 1 r 70k. 40,000 copies. JSL.

Cont: ser tp; pl; tp; biogr & publ data; introd; 15 sects; gloss; tab cont; publ data.

Section now added on the Diamond Fund of the USSR, in which its history is given along with remarks on the jewels and their makers, the tsarist regalia, and the famous diamonds in the fund as the Orlov and Shah. These last two gems are provided


АКАДЕМИЯ НАУК СССР

АКАДЕМИК
А.Е.ФЕРСМАН

ОЧЕРКИ
ПО ИСТОРИИ
КАМНЯ

ТОМ
I

ИЗДАТЕЛЬСТВО АКАДЕМИИ НАУК СССР
МОСКВА · 1954

2073. Fersman's massive compilation of stories, anecdotes and histories of gemstones and ornamental materials in two volumes with many illustrations

with individual histories.The color plates, apparently specially made for this edition, are new and emphasize rough and cut gem specimens of ornamental rather than precious stones; their reproduction, however, remains as poor as in other editions.

END OF RASSKAZY O SAMOTSVETAKH

2073. -----1954-1961, Ocherki

[orn rule] | Akademiya Nauk SSSR | Akademik | A.E.Fersman | Ocherki | Po Istorii | Kamnya | Tom | I[-II] | Izdatelstvo Akademii Nauk SSSR | Moskva · 1954[-61] [in 2 uniform vol; titles in blue & black]

8°: I: 370, [2]p; errata slip; front portr of Fersman tip-in; 46 photos on 15 tip-in f; 15 col pls tip-ins(mainly gemstones); 122 fig. Stapled sections. Dk turquoise-blue cloth, blind-stamped masonry frame on front cover enclosing gold title; similar dec on spine. 25.9 x 19.7 cm(10 1/4 x 7 3/4 in). Cut. 32 r. 10,000 copies. JSL. LC 54-41075.

Cont: pl; tp; editors; edit pref; Fersman's pref: introd; text in 3 parts(each with own title in blue & black); 6 appends; ill list; tab cont; publ data.

II: 370, [2]p; errata slip; front col pl tip-in; 16 photos on 8 tip-in f; 8 col pls tip-ins; 71 fig. Sewn sections. 2r 65 k(after revaluation of ruble). 10,000 copies. JSL. LC 59-43037.

Cont: pl; tp; edit pref; text parts 4-5(each with own title as before); 8 appends; biblio in Russ & Engl, also other languages, p 295-363, ca 1890 entries; ill list; tab cont; publ data.

Apart from his 2-vol treatise on the gemstones of the USSR, described above, this is the most important of Fersman's gemological works. It embodies all his knowledge acquired over a long career and it is to be regretted that like his previous major work, this also has never been translated. The first volume, in three major parts, treats the history of stones in Russia in which the cultural aspects are emphasized, then the gemstones found in the USSR during the period 1725-1912, with special reference to the gem regions of Mursinka, Ilmen Mountains, Siberia, Transbaikalia, and, lastly, a systematic description of the gemstones according to color but with separate chapters on nephrite and on white, black, or mixed-color stones. Appendices give classes of colored precious stones, a list of Russian stones according to their colors, a list of archaic Russian names for stones(with notes), a glossary of ancient objects ornamented by gemstones, the varieties of quartz and chalcedony, and the classes of jaspers and porphyries.

Part four, in the second volume, provides a history of gemstones in world cultures generally and stones as used in the arts and in industry, while the last part, especially valuable, describes the famous lapidary works of Peterhof, Kolyvansk and Ekaterinburg, with descriptions of the methods of hand-crafting precious and ornamental stones in the Urals, engraving upon stones, making mosaics and inlays, and discussing the world gemstone industry and gemstone deposits in other countries. The appendices describe the application of ornamental stones to the Church of St Sofia in Constantinople, the buildings of Venice, and the operation and products of the Tirdiske marble factory, also costs associated with the enormous stone objects turned out in Tsarist times in the Peterhof lapidary works, a list of important pieces made in the Kolyvansk and Ekaterinburg factories, imitation stones, and general remarks on use of stone in architecture as a record of man's cultural progress. A remarkable feature of the second volume is the very lengthy list of books and articles from scientific, technological and popular journals which apply to Russian gemstones or to the many topics covered in both volumes and including works on architecture, fine and applied arts, and museum catalogs. This is one of the best bibliographies of its kind ever to appear and totals 1891 entries, of which 1199 are in Russian and the remainder mostly in German and English.

As may be inferred from the brief summary given above, much material is duplicated because it consists of sketches or anecdotes garnered from Fersman's writings without much attempt having been made by the editors to eliminate redundancies and to organize the materials into a consistent whole. Nevertheless the work represents an enormous fund of useful and entertaining information that is of value to everyone. The paper in both volumes is good quality, semi-glossy coated stock which enabled better reproduction of illustrations in the text, but the color illustrations still leave much to be desired in terms of crispness and fidelity. As is true of other works by Fersman, many illustrations are borrowed from foreign sources without acknowledgment.

2074. -----1956

Shkolnaya Biblioteka | Akademik | A.E.Fersman | Puteshestviya Za Kamnem | Nauchnyi Redaktor | Akademik | D.I.Shcherbakov | [vignette, pen & ink Sketch of Fersman in hiking costume] | Gosudarstvennoe Izdatelstvo Detskoy Literatury | Ministerstva Proisveshcheniya RSFR | Leningrad - 1956

I have seen an incomplete reference to "Moi Puteshestviya," Izdatelstvo "Molodaya Gvardiya," 1949, but with no further data; it may be the predecessor to the above. USGS Libr.

8°: 527, [1]p; col front pl tip-in + 8 col ill on 4 tip-in f; 3 sketch maps; 230 photos and many small margin sketches. Col paper over bds, a brown map of Central Russia on front cover with title; similar map of Western Europe on back cover; blue cloth spine, white & red lett. 22 x 17 cm(8 5/8 x 6 3/4 in). Cut. 12 r 40 k. 100,000 copies. Browning, brittle paper. JSL.

Cont: pl; tp; publ data; editor pref; author pref; text in 4 parts (each with own tp & col pl); concl; biogr sketch of Fersman; gloss; tab cont; publ data; other bks of publ.

In this "Travels in Search of Stones," Fersman gives highly interesting accounts of his prospecting and mineral collecting journeys to many places in the USSR and elsewhere. The first part recounts childhood experiences, anecdotes of life in Crimea, and in the countries bordering the Mediterranean and Mongolia. The second part is on the Urals with emphasis on visits to the famous gem pegmatite deposits in the Mursinka region and the Ilmen Mountains. Part three is entirely devoted to the Kola Peninsula while the last part describes trips take into mineral-rich regions of Central Asia. The frontispiece depicts six polished slabs of massive ornamental stones from the Urals while the other color plates specimens and views. The renditions in color of mineral specimens are quite handsome being taken from skilled paintings but the photographs, as usual, are poorly printed although many are of considerable interest for showing views of gem mines in the Urals.

2075. ------1960, another edit of above

Akademiya Nauk SSSR | [rule] | Akademik | A.E.Fersman | Puteshestviya | Za Kamnem | [compass] | Izdatelstvo Akademii Nauk SSSR | Moskva | 1960 [title in pale lavender & black]

8°: 391, [1]p; col front pl + 5 col pls tip-ins; 81 photos. Pale lavender cloth, gold & black orn & lett on cover & spine. Col dj, an Arctic scene. 22 x 14.5 cm(8 5/8 x 5 3/4 in). Cut. 15 r. 30,000 copies. JSL.

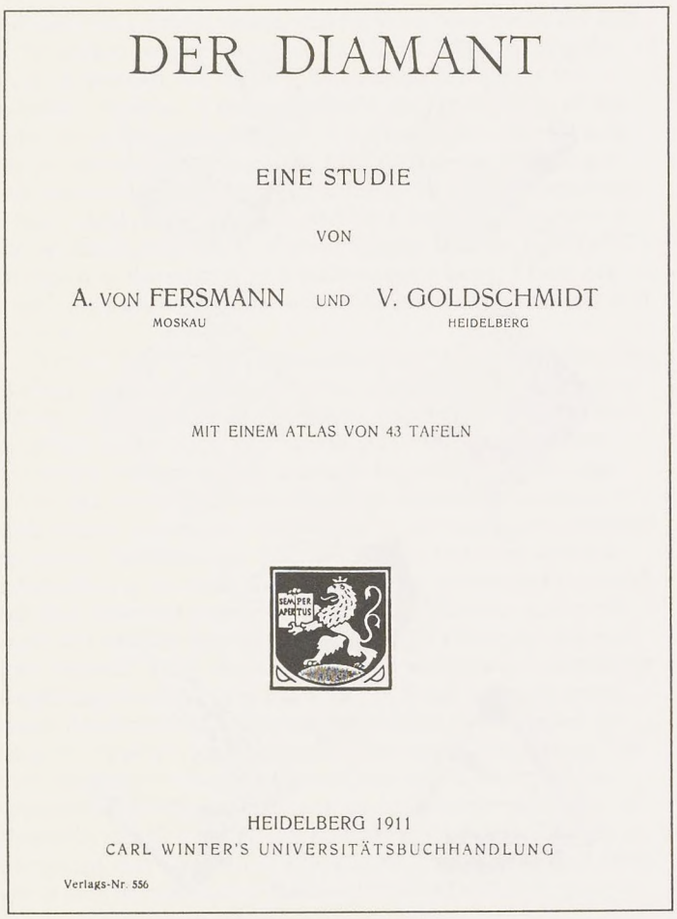
Cont: pl; tp; auth pref; 4 parts; concl; gloss; tab cont; publ data.

Entirely reset with revisions; front pl as before but others now col photos of minerals; illustration reproduction remains poor; paper better. LC 60-35788.

2076. -----1952-1962, Izbrannye Trudy

Akademiya Nauk SSSR | Akademikh | A.E.Fersman | Izbrannye | Trudy | Tom | I[-VII] | Izdatelstvo Akademii Nauk SSSR | Moskva · 1952[-62]

Fersman's collected works, published posthumously under the direction of Editor-In-Chief D S Belyankin for the first two volumes, the remainder edited by a committee. All are 8°:, semi-glossy paper, title in brown and black, dk brown cloth, blind-rules, lett, rect panels on covers, pale brown lett on covers & spines. 25.8 x 16.8 cm(10 1/8 x 6 5/8 in). Cut. All volumes contain portraits of Fersman, and appropriate plates, figures, maps. Poorly bound with loosening common along joints. JSL.


DER DIAMANT

EINE STUDIE

VON

A. VON FERSMANN (MOSKAU) UND V. GOLDSCHMIDT (HEIDELBERG)

MIT EINEM ATLAS VON 43 TAFELN

HEIDELBERG 1911
CARL WINTER'S UNIVERSITÄTSBUCHHANDLUNG
Verlags-Nr. 556

2077. Titlepage to the Fersman & Goldschmidt extremely detailed and richly illustrated treatise on the crystallography of the diamond

LC 53-21865.

Vol I: 1952, 862, [2]p; last p blank; errata slip. 3,500 copies. 54 r. Articles on mineralogy of granitic pegmatites, magnesium silicates, clays, and numerous articles on other minerals and aspects of mineralogy.

Vol II: 1953, 768 p; 3,500 copies, 48 r. Geochemistry.

Vol III: 1955, 798, [2]p; 4,500 copies, 51 r. Geochemistry.

Vol IV: 1958, 588 p; 4,500 copies, 36 r 70 k. Geochemistry.

Vol V: 1950, 853, [2]p; 4,000 copies, 53 r 25 k. Geochemistry.

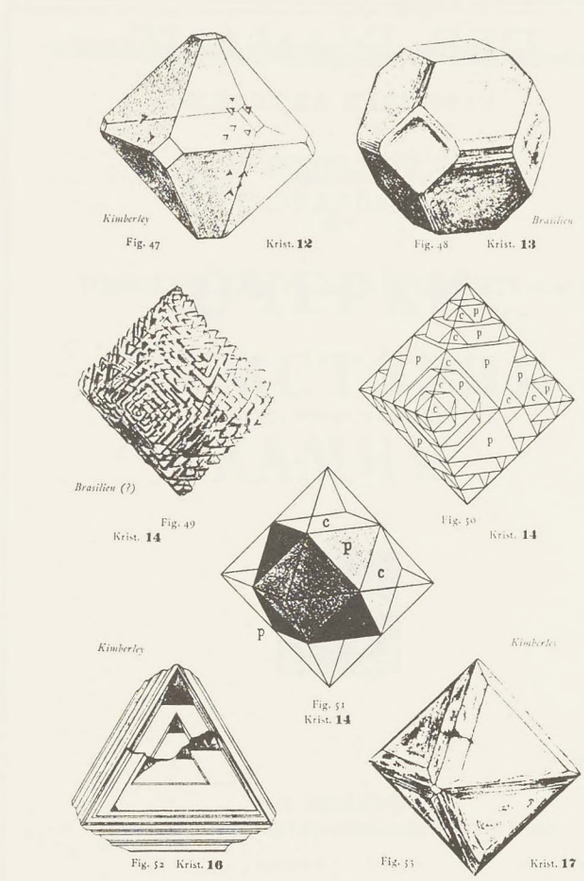
Vol VI: 1960, 742, [2] p; errata slip; 3,500 copies, 45 r, later reduced (1961) to 4 r 50 k. On pegmatites.

Vol VII: 1962, 592 p, errata slip; 2,000 copies, 4 r. This volume is of greatest interest as it contains "Dragotsennye I Tsvetnye Kamni SSSR," p 7-531, reprinting the original two volumes published in 1920-25, and "Tsveta Mineralov," p 533-S6.

FERSMAN, A E, see BAYAN, O, 1952

2077. FERSMAN, A E & GOLDSCHMIDT, VICTOR MORITZ(1853-1933)

Der Diamant | Eine Studie | Von | A.Von Fersman Und V.Goldschmidt | Moskau Heidelberg | Mit Einem Atlas Von



2077. Plate 7 from Fersman & Goldschmidt

43 Tafeln | [logo] | Heidelberg 1911 | Carl Winter's Universitätsbuchhandlung | Verlags-Nr.556 [2 vols]

8°: XVII, 274 p + [2 advert]p; 206 fig. Atlas: titleleaf + 43 bound-in pls on stiff paper, many figs in color, some pls with printed overlay tissues. Stiff, bright yellow wrap, pale red lett. In thin cardboard box, yellow print cover & spine labels, foredge ties of black cloth tape. 25.7 x 16.8 cm(10 1/8 x 6 5/8 in). Uncut. Also in bright red cloth, blind frames on covers, gilt spine titles, te stained red. 24.5 x 16.2 xm(9 5/8 x 6 3/8 in). Cut. JSL. A special(?) copy seen in USGS Kunz Coll: maroon buckram, blind 3-rule frames on covers, gold titles vertically on spines, maroon end[; GS 11-507; presentation copy from Goldschmidt to Kunz.

Cont: tp; publ data; fwd; tab cont & errata; text; etch experiments; concl; append; author index; locality index; pls index; pl explan; advert. Atlas: tp & pls.

This important work remains the best authority on the morphology of diamond crystals but also contains much more information than mere crystallography. The first part of the text treats general crystallography, the solubility of diamond,and its etch figures. The second part provides a historical review of previous investigations upon diamond and includes a large bibliography of 402 references, p 42-58. The last part is devoted to the morphology of crystals including diamond twins. Etch figures are given special treatment and an appendix describes methods used to develop them. The atlas is remarkable for its shaded crystal drawings after actual stones which are in addition to the usual idealized crystal form drawings and several photographs. There are altogether 292 figures of crystals and/or surface features upon diamond crystals.

2078. -----1955, Russ transl

A.E.Fersman | Kristallografiya | Almaza | Redaktsiya | Kommentarii | Akademika [and enclosed in box:] D.S.Belyankina | I Professora I.I. Shafranovskogo | [vignette, a diamond crystal] | Izdatelstvo Akademii Nauk SSSR | 1955 [titles in pale sepia & black]

8°: 566, [1], [1 blank]n;, 46 pls, some col, some with col tissue overlays; 197 fig. Dk brown cloth, embossed cameo portr of Fersman on cover with gilt lett surround; gilt lett, 2 red bands on spine. 21.3 x 16.3 cm (8 3/8 x 6 3/8 in). Cut. 24 r 40 k. 5,000 copies. JSL.

Cont: ser tp("Klassiki Nauki"); tp; ser editors; vignette portr of Fersman with title; text tp; text; atlas of 43 pls bound-in; tables; Shah diamond with tip-in pl; Orlov diamond with tip-in pl; appends; comment; tab cont; publ data.

The major portion of this memorial to Fersman's studies of diamond is taken up by a Russian translation of Fersman & Goldschmidt's *Der Diamant*, which see above, and reproducing accurately the figures and handsome plates of the original. Facing p 32 is a photograph of the original titlepage. The second and third parts of this collection are Fersman's treatises on the Shah and Orlov diamonds which have been described before. The appendices include a lengthy discussion of Fersman and his works by Academician D I Shcherbakov, p 490-531, and another on his crystallographic work by I I Shafranovskii, p 532-46. The commentary following mostly confines itself to the basic work on diamond but also includes remarks on his small treatises on the Shah and Orlov. A good portrait of Fersman faces p 496. A strong well-made book; high quality materials.

2079. FERSMAN, A E & SHUBNIKOV, ALEKSAI VASILIEVICH(1887-). Zadachi v oblasti obrabotki tsvetnogo i dragotsennogo kamnya [Recent problems in working colored and precious stones], *with* Novye priemy obrabotki kamnya I.-III. [New methods in working stones (by Shubnikov)]. *Trudy Instituta Prikladnoy Mineralogii i Petrografii* [Trans Inst of Econ Mineralogy and Petrography, "Lithogaea"], Leningrad, vyp 10, 1924. Offprint: centerstapled, print gray wrap, 28, [1], [3 blank]p. 3 fig. The first article by Fersman, p 5-17, 1 fig, 13 ref, Engl summ p 27, complains that old methods used in the Soviet lapidary industry are unsatisfactory and must be improved by adopting modern practises and equipment. Following is an article by Shubnikov, p 18-21, 1 fig, in which he describes a simple flat-lapping device; the next pages contain two articles on a combination saw-grinder and the use of lead laps instead of glass for thin-section lapping & polishing.

2080. FERSMAN, A E & VLODAVETS, N I

A.E.Fersman | N.I.Vlodavets | Gosudarstvennaya | Petergofskaya | Granilnaya Fabrika | V Ee Proshlom, Nastoyashchem | I Budushchem | Izdanie Komissii Po Izucheniyu Proisvoditenykh Sil Rossii | Pri Rossiiskoi Akademii Nauk | Petrograd | Rossiiskaya Gosudarstvennaya Akademicheskaya Tipografiya 1922

8°: [4], 93, [1]p; 40 text fig(drawings, cuts, plans). Pale gray print wrap, elaborate panel imitating mosaic, with oval opening bearing title & below a rect intarsia scene on front cover. 27.5 A 18.7 cm(10 3/4 x 7 3/8 in). Cut. LC 32-6761.

Cont: tp; publ data; pref; text; sunml; biblio(p 89, 14 entries); explan of text figs; tab cont.

The story of the famous Peterhof Lapidary Works near St Petersburg in the past, present, and future. The first part of the text gives a detailed history from 1725 to 1921, and describes developments in lapidary methods and the increasing skill of the workers and enlarged capacity of the machinery to handle the enormously large vases, urns, plinths, columns, etc, for which this factory was known. Some of these are described and notes given on the materials used in them. The factory is described in the second part: its location, installations, rooms devoted to specific operations, and with a valuable step-by-step explanation of how blocks of stone were eventually carved into the finished pieces. There are numerous illustrations of the machines used in sawing, drilling, hollowing, lapping, engraving, faceting, and other types of work. A brief section describes stones that contain internal patterns or "pictures." Abrasives and polishing agents are listed p 63-72. The last part describes lapidary factories elsewhere in the region as well as museums and exhibits featuring such works. Very rare.

FEUCHTWANGER, LEWIS(1807-1876)

B Furth Ger; grad Heidelberg U where noted as skilled duellist in his student days; to USA. late 1820's; establ drug business by 1831 in NYC; ca 1831 invented a "German silver" alloy; early in career developed strong interest in gemstones & made large, important collection which was sold in England; a later collection presented by him to Soc Ethical Culture, NYC; mbr NY Lyceum Nat Hist, Am Assoc Sci, min societies Jena, Altenburg, etc. Biogr: Edgar H Adams, *The Numismatist*, 26, 6, 1913, p 297-302. See also *Lap J*, 44, 10, 1991, 45-54, *passim*, biogr notes by JS.

2081. -----1838

A | Treatise On Gems. | In Reference To Their | Practical And Scientific Value; | A Useful Guide For The Jeweller, | Lapidary, Artist, Amateur, Mineralogist, And | Chemist; Accompanied By A Description Of The Most | Interesting American Gems, And Ornamental | And Architectural Materials. | [rule] | By Dr.Lewis Feuchtwanger, | Chemist And Mineralogist; Member Of The New York Lyceum Of Natural History, And Of The | Mineralogical Societies Of Jena, Altenburg, Etc. Etc. Etc. | [rule] | New York: | Printed By A.Hanford. | [double row of dots] | 1838.

4°: vi, [2 blank]p + p 9-178 + [2 advert]p; [A-B]^4, C-X^4, Y^2; 25 wood engrav of which only 6 are numbered. Purplish-Gray embossed cloth, deeply stamped gold lett title on cover; plain spine. Tan, glossy endp. 22 x 14 cm (8 3/8 x 5 1/2 in). Cut. JSL. LC 8-36596.

Cont: blank f supplied; tp; publ data; ltr; pref; blank f; 2 parts text; append; tab cont; advert; blank f supplied.

The first monograph on gemstones published in the United States and an excellent one at that. In the testimonial letter, James Renwick(1792-1863), LL D, professor of chemistry & physics in Columbia College, noted that "in reference to the native minerals and rocks of the United States, that I conceive your treatise to be most likely to be eminently useful." In his *Gems and Precious Stones of North America*, the eventual successor to Feuchtwanger, published in 1890, G F Kunz notes that "Dr.Lewis Feuchtwanger, of New York, was, in 1838, an authority on precious stones, and his book was one of the first to be written on the subject in the United States. During his long residence in this country, he made an interesting and valuable collection of minerals, fossils, and gems, many of the latter being fine specimens, but it has not been sold, and is in the possession of his daughters. Moving has greatly damaged this collection, which originally included nearly 900 specimens; it was placed on sale in 1874, and for a time was deposited in the American Museum of Natural History in New York"(p322). In regard to the priority of Feuchtwanger's book, I have not found any published earlier and unlike Kunz, conclude that it is the first.

The text begins with general gemology: properties, chemistry, geology, geographical distribution, enhancement of color, gem setting, cleaning of gems, imitations, conmerce, and gems used in optical applications. The second part considers individual gemstones and ornamental materials beginning with the diamond and working through the major and minor species into such rarities as natrolite, apatite, pyrite, and numerous ornamental stones. Feuchtwanger took special care to record as much information as he could find on native gemstones and the localities that furnished them, and while some localities were previously recorded by Samuel Robinson In his *Catalogue of American Minerals*, 1825, these were treated very briefly and without amplifying details such as characterizes Feuchtwanger's treatment. Another "first" of the present work is the extended description of pearls, artificial pearls, and corals, but nothing was said about the freshwater pearls of the United States which apparently were largely unknown at the time. As alluded to in Renwick's letter, Feuchtwanger's writing sometimes borders on the quaint, but all of it is easily followed and forms much pleasant as well as informative reading. Very rare.

2082. -----1838, new edit

A | Treatise On Gems |...| A Useful Guide For The Jeweller, Amateur, Artist, Lapidary, | Mineralogist, And Chemist. Accompanied by A De- | Scription Of The Most Interesting American | Gems, And Ornamental And Arch- | Itectural Materials. |...| New-York: | Printed By A.Hanford. | [double-row of dots] | 1838.

4°: vi, [2 blank]p + p 9-162 + [2 blank]p; [A]^4, B-T^4, U^2; same ill. Brownish-gray cloth, embossed overall with seashell pattern; paper spine title label, above the title appears "New Edition." White endp. P size same. Entirely reset; many minor changes in format & ch numbering, some alterations in text. In his 3rd edit 1867, Feuchtwanger summarizes the printing history but fails to mention this edit; instead, he notes the 1859 edit, below, as that which immediately precedes his 3rd edit. Agassiz II, 409. JSL.

2083. -----1859, [3rd edit], title change

A Popular | Treatise on Gems, | In Reference To Their | Scientific Value: | A Guide For The Teacher Of Natural Sciences, | The | Lapidary, Jeweller, And Amateur: | Together With A | Description Of The Elements Of Mineralogy, And All | Ornamental And Architectural Materials. | With Elegant Illustrations. | By | Dr.L.Feuchtwanger, | Chemist And Mineralogist, Member Of The New York Lyceum Of | Nat.Hist., American Assoc. Of Science, Of The | Mineralogical Societies Of Jena, | Altenburg, Etc. | New York: | D.Appleton & Company, 346 & 348 Broadway. | 1859.

12°: blank f supplied + 464 p + blank f supplied; hand-col front litho pl tip-in with tissue gd + 17 bound-in pls at end of text (8 hand-col, 2 part hand-col); 134 fig. Fig & pl nos do not always coincide with their explanations nor are they all in order. Pale purple cloth, ornate floral blind stamping on covers over embossing; similar stampings on spine with gold lett. Pale tan endp. 18.3 x 12.4 cm(7 1/4 x 4 7/8 in). LC 9-1156.

Cont: blank f; 1/2tp; pl; tp; copyright; pref; tab cont; introd; 3 parts text; pls(interleaved with explan f); index; blank f.

While generally retaining the previous organization, this edition is greatly expanded in content with technical matter taking up the first two parts and leaving descriptions to the last part. The first part now contains considerably more material on crystallography and expands discussions of properties and the classification of minerals and gemstones. The second part, entitled simply "Gems," is a potpourri of essays on specific properties of gemstones, artificial gems, glasses, history, gem sculpture, lapidary work, mosaic and inlay work, commerce, and other topics. The last part is descriptive but is also considerably augmented. All of the information is germane. The discovery of freshwater pearls near Paterson, New Jersey in 1857 was duly noted and this native gem now becomes an important part of the work. The frontispiece, rather crudely executed, is the first American colored book illustration of a native gem mineral, namely, zircon, shown as a fine crystal perched on matrix from Canada. The numerous plates now added to this work and bound-in at the end are copied in part from Barbot's *Traité Complet des Pierres Précieuses*, 1858, which see, and show rough and cut diamonds, several plates of famous diamonds, and another of a diamond cutting scaife; seven plates in hand-coloring are taken from Kurr's *Das Mineralreich Im Bildern*, 1858, and are fairly accurate copies. Another color plate consists of numerous small rectangular frames filled in with various colors to represent the hues of gemstones. Very scarce.

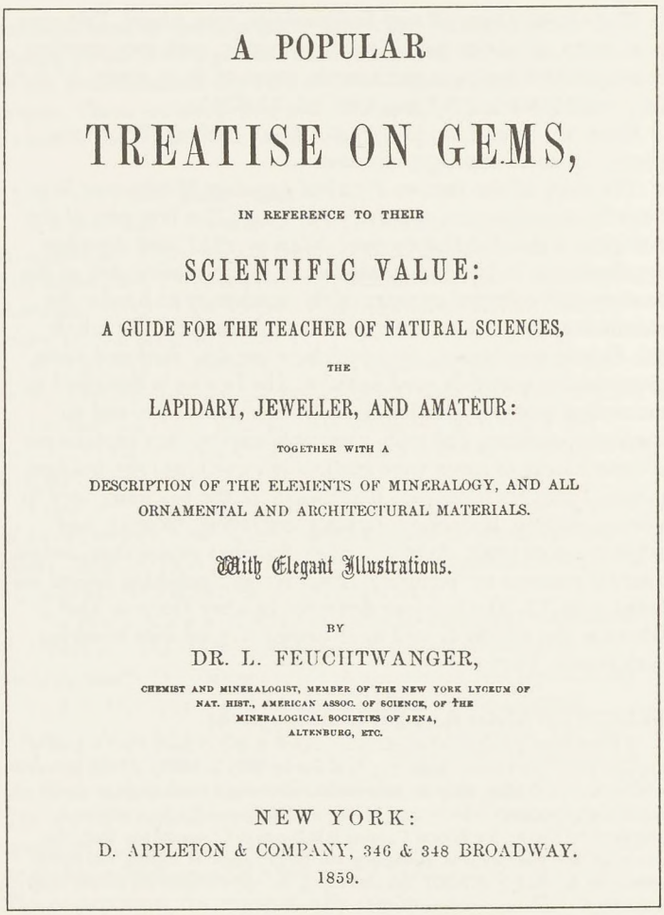
2084. -----1867, 3rd [sic] edit

A Popular | Treatise On Gems, | ...| By | Dr.L.Feuchtwanger, a [4 lines of mbrships, etc as before] | Third Edition. | New York: | Published By The Author, No.55 Cedar St. | 1867.

12°: [2 blank], 505, [1 blank]p + [2 blank]f tip-ins; the first f is conjugate in the first gathering, the final 2 f comprise a double-leaf tip-in. Tip-in front heliograph portr pl of author with tissue & facsimile signature; the col pl previously here now faces p 183 & is tip-in but minus tissue; 17 bound-in pls, each with explan f, the latter counted in pag(8 col pls + 2 part col, + 7 b&w pls); 190 unnumb figs + 6 numb figs, 13 unnumb figs; all of it is confused and some fig nos are repeated. Green cloth, elaborate blind-stamped frame enclosing a blind central medallion on each cover; gold title on spine enclosed in gilt frame with note of edit & date at foot of spine in similar frame. White endp. 18.3 x 11.9 cm(7 1/4 x 4 3/4 in). Cut. JSL.

Cont: blank f; 1/2tp; pl; tp; copyright & press data; pref; pref to 3rd edit; tab cont; introd; text; pls; index; biblio(p 465-93, ca 540 entries); tab properties; gemstone values for 1867; blank p; 2 blank f.

Actually a reprint with new material added after the original index, ie, bibliography, tables. Title identical except for edition notice and new publisher, while former preface shortened to accomodate a new preface. The color plate used formerly as the frontispiece was redrawn to delete several figures and to substitute others. The Barbot plates were unhappily bound up to make Barbot's plate numbers correspond with the plate numbers on the explanation leaves with the result that these do not match the plates; this mistake was avoided in the previous edition. The appendices are not indicated in the table of contents and contain a very large list of references,and a table of gemstone properties "copied from Mr.Harry Emanuel's late work on Diamonds and



A POPULAR

TREATISE ON GEMS,

IN REFERENCE TO THEIR

SCIENTIFIC VALUE:

A GUIDE FOR THE TEACHER OF NATURAL SCIENCES,

THE

LAPIDARY, JEWELLER, AND AMATEUR:

TOGETHER WITH A

DESCRIPTION OF THE ELEMENTS OF MINERALOGY, AND ALL ORNAMENTAL AND ARCHITECTURAL MATERIALS.

With Elegant Illustrations.

BY

DR. L. FEUCHTWANGER,

CHEMIST AND MINERALOGIST, MEMBER OF THE NEW YORK LYCEUM OF NAT. HIST., AMERICAN ASSOC. OF SCIENCE, OF THE MINERALOGICAL SOCIETIES OF JENA, ALTENBURG, ETC.

NEW YORK:

D. APPLETON & COMPANY, 346 & 348 BROADWAY.

1859.

2083. Titlepage to the third edition of the first book on gemstones written by a United States citizen and with the first American colored book illustration of a native gem mineral(frontispiece plate)

Precious Stones, as also many remarks on the value and market prices of gems." The bibliography is now an important feature and is again a "first" in respect to being the first of such scope to be published in a United States book; it is entitled "Chronological List Of Works On Gems And Minerals Since The Fifteenth Century," assembled, according to Feuchtwanger, after "much perseverance and labor," but nevertheless bearing a strong resemblance to the similar list in Emanuel's book, even to the extent of faithfully reproducing certain ludicrous mistakes in spelling; whereas Emanuel compiled his list alphabetically by author, Feuchtwanger did so chronologically, and there the major differences cease.

2085. -----1872, 4th edit

A Popular | Treatise On Gems, |...| Fourth Edition. | New York: | Published By The Author, No.55 Cedar St. | 1872.

12°: 528 p; same ill but see below. Reddish-brown pebbled cloth, baroque style oval gilt frame on cover enclosing gilt title with blind orn outer frame; gold rules, title & orns on spine; blind ruled frame on back cover enclosing a blind-stamped urn. Pale tan endp. 18.3 x 12.3 cm(7 1/4 x 4 7/8 in). Cut. USGS Kunz Coll; JSL.

Identical up to and including p 499, but appendices now numbered I. for bibliography, tables II., and a new appendix, numbered III. which gives information on the newly-discovered diamond deposits of South Africa. There is a fullpage illustration

on p 512 of rough and cut South African diamonds and quartz crystals, borrowed from a paper by James Tennant of London. Also new, are appendices IV.-IX., dealing with diamonds in Bohemia, searches for diamond in North Carolina and other states, the diamond fields of Arizona (see Harpending, *The Great Diamond Hoax*), discovery of gemstones in North Carolina and Arizona, a description of the New York Diamond Company's cutting shop, the value of diamonds, precious stones, corals and pearls for 1867, and an unnumbered final appendix which gives diamond market values for 1872.

FICHTEL, JOHANN EHRENREICH von (1732-1795)

B Presburg, Hungary; lawyer, but stud geol & mineralogy, in which he became expert; wrote several important works on mineralogy of Transylvania. Pogg I, 243; *Biogr Univ*, 14, 492.

2086. -----1791

Mineralogische | Bemerkungen | von den | Karpathen. | Von | Johann Ehrenreich von Fichtel, | Kais. Königl. Gubernialrath, und Bankalgefällen= | Direktor; der Gcsellschaft naturforschender Freunde zu | Berlin, der ökonomischen zu Leipzig, und der So= | cietät der Bergbaukunde Mitglied. | [rule] | Erster[-Zweiter] Theil. | [engrav vignette, hand-col(by a previous owner?)] | Wien, 1791 | bei Joseph Edlen von Kurzbeck, | k.k.Hofbuchdrucker, Gross= und Buchhändler.

8°: I: [10], 411, [1 blank]p; first 5 f unsigned, remainder A-Bb^8, Cc^6. 20.7 x 13 cm(8 1/8 x 5 1/8 in). Cropped. Cont: tp; pref; tab cont; text; blank p. II: [1], [1 blank]p + p 415-730; first f unsigned,remainder Dd-Yy^8, Zz^6. 1 engrav fold sketch map bound-in. Cont: tp; text; map. BM(Nat Hist).

Geological-mineralogical description of the Carpathian Mountains and mineral deposits. The second volume, p 588-638, contains an important description of the famous precious opal mines in the Dubnik region, now in Czechoslovakia; there are further notes on other forms of opal on p 638- 42. Fichtel remarks that the only previous treatise on the precious opal deposits is that of Delius in the 3rd volume of *Abhandlungen einer Privat- gesellschaft in Böhmen*, p 227, which see under DELIUS, C T. Fichtel is of the opinion that most, if not all of the so-called "oriental" precious opal comes from these deposits. He provides a short history of the mining from earliest time, describes recent mining efforts, and comments upon the commercial aspects and also covers the lapidary treatment of the stones, the several kinds of opal, and further treats in detail the geology and mineralogy of the deposits, the enclosing rocks, vein systems, methods of mining, properties & features of the opal itself, its water content, varieties, values, speculations on causes of the play of color, cracking due to dehydration, hydrophane opals, and in a later section, describes other forms of opal. Agassiz II, 410.

FICORONI, FRANCESCO(1664-1747)

Famous, erudite antiquary of Italy; prolific author. *Biogr Univ*, 14, 496.

2087. -----1736 Le maschere sceniche e le figure comiche degli antiche Romani, descritte da Francesco de Ficoroni. Roma, 1736, 4°, figs. Another edit in 1748; first edit transl into Latin under title *De larvis scenicis*, Roma, 1744, 85 pls, 2 vignettes. Not seen; from Mariette *Traite*, vol 1, 444, 468.

Of these Furtwängler, *Die antiken Gemmen*, 3, p 412-3, says "very useful collection of theater masks in which the gems provide the major portion of the matter... offers a rich collection of apparently faithfully engraved figures of actors and masks, mostly taken from gems, but as a rule the gem border is not provided... the material of the gem is generally given and mostly the provenances accurately indicated." Further, "after Ficoroni's death, his collection of gems with inscriptions, and with explanations by Baldini and Contucci, was published by the Jesuit Galeotti" (see below). Further remarks on these works in Aldini, *Inst Glitt*, 1785, p 275-95; p & H Zazoff, *Gemmensammler*, 1983, p 117-8.

2088. -----1757, Galeotti edit

Francisci Ficoronii | Reg.Lond.Acad.Socii | Gemmae Antiquae Litteratae, | Aliaequae Rariores. | Accesserunt | Vetera Monumenta | Ejusdem aetate reperta, | Quorum ipse in suis Commentariis mentionem facit. | Omnia Collecta, | Adnotationibus, Et Declarationibus | Illustrata | A P.Nicolao Galeotti | E Soc.Jesu. | [woodcut vignette] | Romae MDCCLVII. | Sumptibus Venantii Monaldini Bibliopolae in Via Cursus. | [double red rule] | Ex Typographia Joannis Zempel prope Montem Jordanum. | Superiorum Permissu. [Title in red & black].

4°: xij, 160 p; a^6, A-V^4; 26 engrav pls bound-in, numbered as follows: I-VIII, I-XI, XXII-XXIII + 4 unnumb fold pls bound in at end of text. Ch orns, inits. 25.2 x 19.5 cm(9 7/8 x 7 3/4 in). Cut. USGS Kunz Coll, GS 34-325; JSL.

Cont: tp; dedic by Monaldini; approb; imprims & approbs; pref; errata; text; commentary on a work of Buonarruoti; fold pls.

The first text part depicts inscribed gems on 8 plates and describes their subjects while the second part similarly depicts & describes 67 unusual engraved gems on 11 plates. The gems are shown magnified but accompanied by small outlines of actual dimensions. Several phallic gems noted by Goodland, p 200. Vinet 1627. One of the folding plates, not about gems, shows a lively scene in Campo Marzo, Rome, during the erection of an Egyptian obelisk. Nicolo Galeotti(1692-1758) was a Jesuit from a noble house of Pisa; *Biogr Univ*, 16, 292; see also BARTOLI, P S, 1751-52.

FIEDLER, FRANZ, see HOUBEN, P

2089. FIEDLER, HEINRICH

Die | Mineralien Schlesiens | mit Berücksichtigung | der angrenzenden Länder | von | Dr.Heinrich Fiedler, | ordentlichen Lehrer an der Realschule zum Heil. Geist und Custos | am mineralogischen Museum der Universität in Breslau. | [orn rule] | Breslau, | Verlag von F.E.C.Leuckart | (Constantin Sander). | 1963.

8°: VI, [1], 100, [1], [3 advert]p. Bright yell print paper over bds, with advert; red cloth spine with yell vertical label. 16.5 x 11.8 cm(6 1/2 x 4 5/8 in). Cut. JSL.

Describes minerals and their sources in Silesia and adjacent regions in accordance with 18 classes, with Latin names for same. There is a long section on amber, p 12-15, under "Asphaltite," and gemstones under "Sclerolithe(Edelsteine und Quarze)", p 44-55, in which appear garnet, diamond(?), gem corundum, and many varieties of crystalline quartz and chalcedony, with opal included in the last. A small book but the small type allows much more text than the physical size suggests. Bibliography p IV-VI, 21 entries.

2090. FIELD, D S M Canadian gems and gem localities. Pt 1 gems of the Bay of Fundy, *J Gemm*, 1, 5, 1948, p 20-30, 2 fig(map); Pt 2 gems of Quebec and Ontario, 6, 13-22; 8, 21-33; Pt 3 gems of British Columbia, vol 2, 1949, no 1, p 6-15 (14 refs) & suppl to pts 1 & 2; vol 2, 1950, no 5, p 188-194, 187[sic]. Also other short articles in *Canadian Mining J*, 1949-53.

2090A. FIELD, LESLIE

Leslie Field | [double rule] | The | Queen's | Jewels | The Personal Collection of | Elizabeth II | [double rule] | Harry N.Abrams, Inc., Publishers, New York [1987]

Cementback: 192 p, ca 80 col & 200 b&w photos. Gray, unfin cloth, silver titles front cover & spine, "family tree" endp; red col photo dj, resume, vita(col portr of authoress). 27.9 x 21.9 cm(11 x 8 5/8 in). Glossy paper throughout. LC 86-32187; ISBN 0-8109-1525-l. $29.95. JSL.

Cont: dedic; front col photo; tp; front caption & publ data; tab cont; ackn; pref; text; gloss; biblio(p 185-8, ca 350 entries; index; photo credits.

Carefully and thoroughly researched and enjoying for the first time in such a history of the British royal jewels the full cooperation of the Queen's staff. To begin with the endpapers provide the family tree from Henry VII in the 15th century to the present, and following the front matter, a brief history of the acquisition of the collection and then a series of essays which form the body of text on the jewels that feature the following gemstones: amethyst, aquamarine, coral, diamond(a very large contribution), emerald, gold, pearl, pearl & diamond, ruby, sapphire, turquoise, and ending with remarks and descriptions of royal regalia and orders. The essays provide no gemological information but confine themselves to histories and descriptions of the jewels and gems and are liberally illustrated with photographs, in color and black-and-white, of individual jewels, clearly depicting important gems, or, as is more often the case, royal persons wearing them. This is the definitive treatment and one that promises to become the indispensible reference on the subject for many decades. In view of the importance of the subject matter it is regrettable that sewn binding was not used.

2091. FIELD, J E, editor

The Properties of | Diamond | Edited by | J.E.Field | Cavendish Laboratory, | University of Cambridge, | Madingley Road, | Cambridge, England | [logo] 1979 | Academic Press | London · New York · San Francisco

8°: xiv, [1], [1 blank], 674, [2 blank]p; col front pl tip-in + 2 others; 214 fig; many tabs. Pale orange cloth-type paper over bds; gold lett spine; blind-rule margin front cover with blind logo. Pale gray dj, ill, blue lett. 22.8 x 15.2 cm(9 x 6 in). Cut. LC 77-94296; ISBN 0-12-255350-0.

Cont: 1/2tp; capt to front pl; pl; tp; publ data; contrib list; pref; fwd; tab cont; 2 quot; text; append; subj index; blank f.

P ix: "This book is a successor to one entitled 'The Physical Properties of Diamond' edited by Dr R.Berman and published in 1965", which see. Incorporates new discoveries and new advances in investigation of diamond, its origin in nature, properties, and non-gem uses. Part I solid state, thermal properties, color, optical properties, electrical properties, nuclear properties, and cathodoluminescence. Pt II theory, brief review present ideas of internal structure, particularly in relation to electrons and defect/damage structures. Pt III surface, adsorptability, surface geometries (review of Tolansky's work). Pt IV mechanical, strength, fracture, adhesion, friction, abrasion, hardness, temp changes, etc. Pt V growth of crystals, theory, accretion, methods of synthesis. Pt VI geology, origin in earth & space, inclusions in crystals & significance. Pt VII industrial uses, non-abrasive uses, detectors, dies, etc. There are appendices of tables and statements of property summations, chemical composition, type diamonds, structures, etc. Considerable information useful to the gemologist can be found herein but will require digging. Rev *J C-K*, Aug 1982, p 310.

2092. FIELD & COLE

Catalogue | [orn] Of [orn] | Precious Stones | [rule] | Price 25 cents | [rule] | Arranged And Published By | Field & Cole, | Los Angeles, California. [nd, post 1898; an inscription in ink dtd 1899]

Centerstapled: 19, [1]p; ch orns. Mottled green wrap, gilt cover title. 15.8 x 12.4 cm(6 1/4 x 4 7/8 in). Cut. JSL.

Promotional booklet, containing a list of gemstones and their meanings, "The Birth of the Opal," table of gemstone properties listed by hardness and with specific gravities and sources, and with a text that discusses the availability of diamonds, sapphire, and other gems, and the prices charged for cut stones.

FIELDING, P E, see FERGUSON, J

2093. FIELDING, WILLIAM J

Strange | Superstitions | And | Magical Practices | By | William J. Fielding | Author Of | Strange Customs of Courtship and Marriage | Sex and the Love Life | The Caveman Within Us | [logo] | The Blakiston Company | Philadelphia [entire title in orn frame; 1945]

16°: xiii, 273 p. Brownish-red cloth, black horizontal rules on cover, black rules & rectangles on spine with blue panel lettered in black. 20.2 x 13.6 cm(8 x 5 3/8 in). Cut. Ae stained pale blue. JSL.

Material on gemstones: Ch 4, p 34-52, "Rings, Amulets and Talismans," and especially Ch 5, p 53-64, "Gems and Precious Stones," curious lore.

2094. FIEREMANS, CARLOS Étude géologique préliminaire des conglomérats diamantifères d'âge mésozoïque au Kasai(Congo Belge). *Mém Inst Géol Univ Louvain*, 19, 2, 1955, p 223-94, 3 pls, 14 photos, 6 maps & sects. Geology and mineralogy of conglomerates containing diamonds in Kasai, Belgian Congo. Not seen.

2095. -----1960 Étude critique des classifications des formations diamantifères au Kasai(Congo Belge) et dans la Luanda-(Angola). Ibid, 21, 1960, p 247-78, 3 fig, 2 tab. Discusses alluvial diamond deposits in Kasai, Belgian Congo and in Luanda, Angola. Not seen; *Min Abstr*, 16, 1, 1963, p 40.

2096. -----1977

Academie royale des Sciences d'Outre-Mer | Classe des Sciences Naturelles et Medicales N.S. XX-1, Bruxelles, 1977 | Het voorkommen van diamant | langsheen de Kwango-rivier | in Angola en Zaïre | Door | Carlos Fieremans | Burgerlijk Mijningenieur | en Aardkundig ingenieur | Correspondent van de Academie | Koninklijke Academie voor Overzeese Weten-

schappen | Klasse voor Natuur- en Geneeskundige Wetenschappen N.R., XX-1, Brussel, 1977

Cementb: [2 blank], 28, [1], [1 blankJp + 10 photos on 2 glossy f + large sketch map cemented to inside back cover. Stiff green wrap, cover title. 24.5 x 15.8 cm(9 5/8 x 6 1/4 in). 350 fr. JSL.

On alluvial diamond deposits along the Kwango River in Angola and Zaire; discusses earlier investigations, geology, deposits, satellite mineralogy, and possible origin of the diamonds.

2097. FILIPPI, FILIPPO DE (1814-1867) Sull'origine delle perle. *Il Cimento, Rivista di Scienze, Lettere ed Arti*, Torino, 1, 1852, p 429-37; Ger transl by Küchenmeister, "nebst auf einige Untersuchungen gegründeten Anmerkungen," in Muller's *Archiv f Anatomie, Physiologie u wissenschaftliche Medicin*, Leipzig, 1856, p 251-69; also "Encore un mot sur la formation des perles, " ibid, p 490-3. Kunz & Stevenson, *Book of the Pearl*, bibliogr. Not seen.

FILIPPI, F, see KÜCHENMEISTER, F

FILIPPI, J, see WYART, J et al

2098. FILLITZ, HERMANN

Hermann Fillitz | Die Insignien | Und Kleinodien | Des Heiligen | Romischen Reiches | Verlag Anton Schroll & Co · Wien/München [1954]

8°: 66, [1], [1 blank]p; cut-out photo pl tip-on p 8; 70 photos (8 col) on 33 bound-in glossy f betw p 48-9(a leaf between photos 51 & 52 is tp for the section of photos on the Aachen insignia); 4 text fig. Red cloth, cover medallion of black eagle on gold background; gold spine title; dk maroon & white dj, col photo, resume, advert. 24.3 x 18 cm(9 5/8 x 7 in). Cut. JSL.

Cont: 1/2tp; tp; publ data & photo credits; text; pls tp; pls; catalog tp; catalog; biblio (p 59, 22 entries); blank p.

History of the crown jewels and insignia, clothing, etc of the Holy Roman Empire as preserved in the Kunsthistorisches Museum in Vienna. The text after the plates section lists the objects and give descriptions including provenances & inscriptions; gemstones are prominent in the cross, crown, orb, and other objects made of metal in part. A centerstapled booklet of 7 pages of text is laid in and provides a resume of the history and descriptions of some of the items in English and French.

2099. -----1954 Katalog der weltlichen und der geistlichen Schatzkammer. Wien: Kunsthistorisches Museum, 1954. "Guide No.2." Not seen.

2100. -----1956, Engl transl

Kunsthistorisches Museum | Catalogue | Of The Crown Jewels | And The | Ecclesiastical Treasure Chamber | By | Hermann Fillitz | Translated By | Geoffrey Holmes | Vienna 1956 ["Kunsthist.Mus.Guide No.5"]

8°: 64 p; 32 photos on 16 bound-in glossy f. Black paper front with yellow lett; back cover yellow; spine title in yellow on black. 21 x 15 cm (8 1/4 x 5 7/8 in). Cut. JSL.

Shorter, revised version of the German-language guide.

2101. -----1961, 3rd Ger edit; not seen

2102. ----1964

Hermann Fillitz | Die Schatzkammer in Wien | Schrollverlag · Wien und München [1964; "Die neue Sammlung Schroll"]

4°: 146, [2]p; 66 photos(10 col) on 32 bound-in glossy f in text and includ in pag + 5 col pl cut-outs mounted on text leaves. Magenta unfin cloth, black eagle on gold medallion on cover; gold spine title. Col dj, col photo on cover; back cover red, spine white with red lett; resume, adverts. 24.8 x 221.1 cm(9 3/4 x 8 3/4 in). Cut. JSL.

Cont: series tp; summary; tp; publ data & photo credits; pref; text; catalog; genealogical tabs; biblio(pl46-7, 57 entries); author's letter.

The best of these catalogs of the treasure in the Art History Museum in Vienna; provides history of the Habsburg ruling house, the items in the collection, their uses, and generally providing more detail than is to be found in the previous treatments of the subject. One of the photographs shows the frontispiece and titlepage of the first printed description of the treasure, published in Nürnberg, 1771.

FILLITZ, H , see STEINGRÄBER, E 1968

2103. FINATI, EDUARDO

Sulla Tazza Istoriata | Di Sardonica Orientale | Che Serbasi Nel Real Museo Borbonico | Osservazioni | Di | Eduardo Finati. | [orn] | Dalla Tipografia di Antonio Cons. | Strada S.Antonio alla Vicaria n° 44 | [rule] | 1859 [Naples]

4°: [2] + [4]p. + p 3-34 [sic]; 28.3 x 21.6 cm(11 1/8 x 8 1/2 in). Cut. USGS Kunz Coll, GS 34-840. Cont: tp; blank p; dedic(added); text.

On an antique tazza carved from sardonyx and preserved in the Royal Bourbon Museum in Naples.

2104. FINDLAY Catalogue of gems in the collection of Mr.Findlay, Oriental Museum. London, 1802, 43 pp, 12°. Not seen; found in W J Rhees' "James Smithson and His Bequest," Smithsonian Misc Coll, no 327, 1879, p 1-17, who notes that this item was included in Smithson's library donated to the institution.

2105. FINLASON, J B, et al Reports on the diamond mines of the Cape Colony. [By J B Finlason, F W North, T C Kitto.] London: 1885, 111 p, map. Not seen: Southey no 28, but giving date of 1882.

2106. FINLAYSON, ALEXANDER MONCRIEFF The nephrite and magnesian rocks of the South Island of New Zealand. *Quart J Geol Soc*, London, 65, 1909, 351-81, pls 15-16(each with 6 thin-sect photos); 2 fig(index map; geol cross-sects). Yang 1373.

General account of peridotite & serpentine rocks, areas in which they outcrop, description of nephrite bodies and characters of the nephrites. Cites previous work, describes areas of special interest, also the bowenite serpentines, origin of nephrite and bowenite, but most attention paid to nephrite, including remarks on types, structures, colors, native varietal names, chemical analyses, petrography and origin. Biblio of 17 entries on nephrite alone, p 379. Important, fundamental paper on these deposits of gem quality nephrite & bowenite.

FINOT, LOUIS(1864-1935)

Fr orientalist; educ Troyes & Paris; staff Bibliothèque Nat 1890; specialized in study of Indian archeol, ethnol, languages; in French Indochina organized archeol ctr in Hanoi which became Fr School of Far-Eastern Studies; to Chair of Hist & Phil Indochina in Coll de France; 1917 Dir of Studies, École Pratique des Hautes Études. *Dict Biogr Fr*, 13, 1378.

2107. -----1896

Les | Lapidaires Indiens | Par | Louis Finot | Ancien Élève De L'École Des Chartes | Et De L'École Des Hautes Études | [logo] | Paris | Librairie Émile Bouillon, Éditeur | 67, Rue De Richelieu, Au Premier | [rule] | 1896

"Bibliothèque de l'École des Hautes Études... Sciences Philologiques et Historiques, cent-onzième [111] fascicule."

8°: [7], [1 blank], LII, [3], [1 blank], 280 p. Pale gray wrap, cover title; adverts. 25.3 x 16.6 cm(10 x 6 1/2 in). Uncut. LC 4-22028; JSL.

Cont: 1/2tp; publ data; tp; series tp; note of award to Finot; introd; abbrev; biblio(12 entries); text; Sanskrit index; analytical index; addits & corrigenda; index.

Ancient Indian lapidaries in Sanskrit, presented by Finot with parallel translations in French, and with copious notes. The treatises are the *Ratnaparîkṣâ* of Buddhabhatta, the *Brhatsamhitâ* of Varahamihira(80-83), the *Agastimata*, the *Navaratnaparîkṣâ*, the *Agastîyâ Ratnaparîkṣâ*, the *Ratnasamgraha, Laghu-Ratnaparîkṣâ*, and the *Manimâhâtmya*. The lengthy introduction provides the history of these writings, the subject matter dealt with in terms of gemstones, and compares them with one another in respect to content and language. While all are on gemstones, several, as the *Ratnaparîkṣâ* and the *Agastimata* are much longer than the rest, while one work the *Brhatsamhitâ* treats gemstones only in part. The treatises pay much attention to color in gemstones and to the kinds of flaws that may occur within them, these being regarded as crucial to the proper functioning of the gems as protective or healing agents, and, indeed, if the color is incorrect or if certain kinds of flaws exist, then anyone wearing the stone may actually come to harm. Variants of terms and other notes are collected at the end of the text. This work is a classic and now very scarce in its original edition. Its importance is emphasized by G Sarton, Introduction to the *History of Science*, v I, 1927, p 428-9; P Grodzinski, noted expert on industrial diamonds, examined this work and provided useful information on the diamond portions of several of the lapidaries(*The Gemm*, 25, 295, 1956, 28-30); see also translated excerpts By Raiko H Ruzic in *Lap J*, 24, 5, 1970, 696-707. This work was reprinted by Adidom, Paris, 1986, 179 p.

2108. FIRSOFF, VAL AXEL

V.Axel Firsoff | M.A., F.R.A.S. | Gemstones | of the British Isles | Oliver & Boyd | Edinburgh [1971]

16°: vii, [1 blank], 152 p; 9 col photos on 2 glossy f bound-in; 3 sketch maps; 26 figs. Bright red cloth, black lett spine; col dj, resume. 21.5 x 13.4 cm(8 1/2 x 5 1/4 in). Cut. £ 2.50. ISBN 0 05 002162 1. JSL.

Cont: 1/2tp; other works of author; tp; publ data; pref; tab cont; 16 chs; biblio(p 146-8, 78 entries); index.

An incompetent work by an unqualified individual who had not the foresight to have someone knowledgeable review his manuscript. A confusing hodgepodge of facts, anecdotes, reminiscences, romantic tales, and all leaving the impression with a naive reader that the British Isles contain enormous resources of gemstones when in fact they do not. There is no systematic listing of gemstones according to counties or areas, except in a general way, and in a number of instances, the data are incorrect, and perhaps even more irksome are references to gemstones which have been found only in non-gem quality or in sizes too small to cut. Rev R Webster, *J Gemm*, 13, 1, 1972, 27-8, derogatory; C Rogers, *Gems*, 3, 6, 1971, 45, 47. Also issued in paper, cementbacked, 21.4 x 13.8 cm(8 1/2 x 5 3/8 in). Cut. £ 1.25. ISBN 0 05 002472 8. JSL.

2109. -----1974

Working | With | Gemstones | V.A.Firsoff | David & Charles: Newton Abbot [1974]

8°: x, 210 p; 4 col photos on 2 bound-in glossy f; 32 b&w photos on 8 bound-in glossy f; 42 fig. Black, cloth-type paper over bds, gold lett spine; col dj, resume, advert. Cut. Price initially £ 3.50, then £ 4.50, finally in a "cheap edition" £ 1.95. ISBN 0 7153 618S 0. JSL.

Cont: 1/2tp; other author bks; tp; publ data; tab cont; ill lists; ackn; 12 chs; miscellany; supplier lists; biblio(p 203-6, 69 entries); index.

Another inadequate work, written for popular consumption, with some useful practical information probably supplied by Herbert Scarfe, whose competence in lapidary work is established and whose collaboration here is acknowledged(p ix). Its wide-ranging scope and the obvious lack of author expertise in lapidary work insures inadequate exploration of subjects that should be treated fully and wasted space on matters not really germane to the subject. Some conspicuous technical errors are pointed out by M O'Donoghue, *J Gemm*, 14, 2, 1974, 91-2; an unfavorable rev also in *G & G*, 15, 1, 1975, 31-2; see also reviews *Austral Gemm*, 12, 4, 1974, 139; by R G Hunt, *Gems*, 6, 1, 1974, 51.

2110. FIRSOFF, V A & FIRSOFF, G I

The Rockhound's Handbook | V.A.Firsoff MA, FRAS | and | G.I.Firsoff MA(Cantab) | Illustrated by the authors | [logo] | David & Charles | Newton Abbot London Vancouver [1975]

8°: 210 p (first 2 p blank) + [1 blank]f. Green cloth-type paper over bds; gold lett spine; col dj, resume, other publ bks. 21.5 x 13.7 cm(8 1/2 x 5 3/8 in). Cut. £ 4.95. ISBN 0 7153 6810 9. JSL.

Cont: blank f; 1/2tp; other bk of V A F; tp; publ data; tab cont; introd; 19 chs; 6 tab; biblio(p 206-7, 31 entries); index; blank f.

A curious, often inept work in which too many subjects are undertaken with the result that none are adequately treated. The first two chapters, for example, attempt to discuss petrology, and are followed by chapters on mineralogy, chemical testing, and mineral collecting, with other chapters on minerals, described according to their geologic environments, how to form a collection, lapidary work, and tables of mineral properties. There Are many misstatements and factual errors, as pointed out by M O'Donoghue rev, *J Gemm*, 14, 8, 1975, 396.

2111. -----1975, New York edit

The Rockhound's Handbook |...|Arco Publishing Company, Inc. | New York [1975]

Identical but in green cloth, gold spine title; col dj. $10.00, LC 75-3946; ISBN 0-668-03799-7. JSL. Not improved by the crossing.

FIRST INTERNATIONAL CONGRESS ON DIAMONDS, see GREENE, P, editor

FISCHER, CARL WALTHER (1897-1979)

Ger mineralogist, geological historian; b Rochlitz, Saxony; stud chem Tech Hochschule Dresden; Dr Ing degree 1925; to Staatliche Mus f Mineralogie, Geol u Vorgeschichte, Dresden 1930, apptd curator mineralogical sect; in charge entire mus in 1943; to Idar-Oberstein 1948; director of vocational school 1954; prolific writer, esp papers on Saxony mining hist. Biogr note, *Aufschluss*, 8, 6, 1957, 141-2; R Metz, ibid, 23, 6, 1972, 209-22, portraits, list of 380 publs; obit, ibid, 30, 145-6, portr. In his writings, the first name was very rarely used.

2112. -----1929 Von dem bei Schmiedeberg im sächsischen Kur-Kreis in dem Jahre 1731-1733 gegrabenen Bernstein. *Sitzungsber u Abhandl der Naturwiss Ges "Isis" in Dresden*, Jg 1929, Dresden 1930, p 33-47, 4 ill. Research among old documents revealed a short-lived amber-mining industry existed nr Schmiedeberg, Saxony during 1731-33; amber recovered from alluvium, mainly clay. Rev K Andrée, *Bernstein-Forsch*, 3, 1933, 214.

2113. -----1940 Das Vorkommen des "Rochlitzer Achates" in Wiederau bei Rochlitz, Sachsen. Ibid, Jg 1938/39, Dresden, 1940, p 165-86, 3 pls, 3 fig(1 sketch plan). Also separate: pale gray print wrap, in *Mitt aus dem Staatl Mus f Mineralogie u Geol zu Dresden(Zwinger)*, Nf Nr 62, 1940, retaining orig pag. JSL. This deposit is famous for brightly-hued banded agate masses in porphyritic igneous rocks, examples of which are depicted, and with photo-micrographs: detailed history of discovery & exploitation, citing documents and references from 18th century onward, and with equally detailed discussion of the mineralogy of the deposit.

2114. -----1953

Opuscula Mineralogica Et Geologica | Veröffentlichungen zur Mineralogic und Geologie | Herausgegeben von Erwin Nickel, Münster | [rule] | III | Praktische | Edelsteinkunde | Von | Dr.-Ing. Walther Fischer | Idar-Oberstein | Mit über 90 Figuren im Text und auf 3 Tafeln | 19 [logo] 53 | Verlag Gustav Feller-Nottuln, Kettwig/Ruhr

8°: VIII, 187, [1 blank]p; 3 doublep fold pls of figs & lett tipped-in at end of text; 48 fig. Pale greenish-blue print wrap, cover title. 24.3 x 17 cm(9 1/2 x 6 3/4 in). Cut. Paper badly browning. DM 16.80, for subscr to Opuscula or students, DM 12.80. JSL. LC 55-25930.

Cont: tp; dedic & publ data; fwd; tab cont; introd; text; biblio(p 170, 35 entries); index; pls.

A textbook for students in the lapidary profession and based on the concept that a firm understanding of the internal structure & properties of gemstones is required for effective and mistake-free cutting. For this reason the approach is considerably more scientific than found in ordinary popular works on gemology and also more technical in respect to the treatment of individual species. The first part introduces properties and how these affect results in cutting, while the second part, largely descriptive, discusses uses of individual gemstones and makes specific recommendations on the lapidary methods that must be followed, including equipment, abrasives, polishing agents, choosing a cutting style, and other bits of immediately practical advice. The folding plates are two-part, an outline drawing of figures and a facing explanation leaf; these illustrate diamond lattices, shapes & orientations of piezoelectric slices from quartz, and optical figures observable in uniaxial/biaxial minerals. While aimed at the practicing lapidary, gemologists will find much of value. Probably few copies will be found in the future due to the rapidly-decomposing paper. Rev: B W Anderson, *The Gemm*, 22, 269, 1953, 226-28, and critical of much of the theoretical gemology; *J Gemm*, 4, 5, 1954, 216; *G & G*, 7, 12, 1953, 376-77; W F Foshag, *R & M*, 28, 11/12, 1953, 626; *N Jb Min*, Monatsh, Jg 1953, 273-4.

2115. Not used.

2116. -----1954, 2nd edit Identical save for insertion of "Zweite Auflage" in the title and a new date; there is also a lengthy forword inserted after the title leaf and made conjugate with same. Pagination: [2], VIII, 187, [1 blank]p; pls same. Paper remains poor. DM 7.50. Rev: W Lieber, *Aufschluss*, 8, 11, 1957, 250.

2117. -----1954 Zum Problem der Achatgenese. *N Jb Min*, 86, 3, 1954, 367-92, pls 33-8(13 photos). Surveys the problem of the origin of agate citing the views of investigators since 1915 and the objections raised against theories by Nacken, Schlossmacher and Liesegang. Biblio p 389-92, 44 entries. JSL.

2118. -----1955 Edelsteine, synthetische. *Ullmanns Encyklopedie der technischen Chemie*, 3 Aufl, 6 Bd, München-Berlin: Urban & Schwarzenberg, 1955, 220-52, 10 fig. Concise summary of synthetic gemstones; diamond, GE synthesis, corundum, "electrocorundum," spinel, rutile, scheelite, Cd-wolframite, emerald, quartz, colorless SiC, misc & assembled stones, imitations, trade. Large biblio p 252.

2119. ------1956, editor

Vom Hunsrück zum Westrich | Zur Geologie des oberen Nahegebietes um Idar-Oberstein | 3. Sonderheft zum Mitteilungsblatt "Der Aufschluss" | Redaktion: Walther Fischer | [rule] | Herausgegeben von der Vereinigung der Freunde der Mineralogie und | Geologie (VFMG), Rossdorf bei Darmstadt | anläslich der Jahrestagung 1956 in Idar-Oberstein

Cementb: 75, [1]p; 39 ill(sketch maps, photos). Very pale gray wrap, cover title with agate-mill ill; prev nos inside back cover; society logo back cover. 21 x 14.5 cm(8 1/4 x 5 3/4 in). Cut. JSL.

Articles of gemological interest: "Mineralfundstellen im oberen Nahe-Gebiet, p 35-9, by R Leyser and including sites for agate; "Von der Entstehung der Achate," p 40-3, by W Fischer; "Über Achatbergbau und Achatgräberei im Nahebergland," 44-8, by K M Britz on the local agate deposits and their mining; and "Zur Geschichte der Idar-Obersteiner Edelsteinindustrie," 49-59, by Fischer, on the local agate-cutting industry, well-detailed and documented. See also a similar Sonderheft, No 19, edited by W Lieber.

2120. -----1968 Zur Entwicklung der Steinschleiftechnik. *Der Aufschluss, Sonderheft 18*, "Edelsteine," zum 70. Geburtstag von Karl F.Chudoba; Heidelberg, 1968, p 21-65, 39 ill. JSL. Development of lapidary techniques from Stone Age to present; cites many documents, reproduces numerous old illustrations. Treats Mexican pre-Conquest work, Near East cylinder-seal engraving, methods of work as describe in Theophilus, Pliny, De Boodt and others, then discusses specific operations as sawing, shaping, drilling, etc. A large section is devoted to engraving upon gems and using Natter's treatise as a reference and reproducing a plate

of tools & equipment. Another section discusses development of agate-cutting in Idar-Oberstein and a brief section speaks of jade carving in China. Biblio p 58-60, ca 75 entries; notes, p 61-7, 103 entries.

2121. -----1971 Kaiser Rudolf II., Mineraliensammler und Mäzen der Edelstein-bearbeitung. *Aufschluss*, Jg 22, 1, 1971, 1-36, 9 ill; 93 notes; 53 biblio entries. 21 x 14.8 cm(8 1/4 x 5 7/8 in). JSL. Biogr note on Rudolf II (1552- 1612), King of Hungary, of Bohemia, Kaiser of Germany, and Emperor of the Holy Roman Empire and details on his activities and influence as a patron of thc arts and sciences, more especially as the sponsor and supporter of the famous lapidary workshops in Czechoslovakia. On Rudolf's passion for gemstones and the fascination of watching lapidaries turn dull rough into glittering pieces of finished work, see the comments of Henry Carrington Bolton, *The Follies of Science at the Court of Rudolph II. 1576-1612*, 1904, esp p 55 ff, where he talks of lapidary work as being "one of Rudolph's favorite fads."

2122. FISCHER, WALTHER & SCHLIEPHAKE, R W Beobachtungen an Achaten. *Aufschluss*, 22, 7/8, 1971, 226-34, 24 ill, 3 ref. JSL.

FISCHER, C W, see LIEBER, W, 1970; NEUHAUS, A, 1955

2123. FISCHER, KARL Edelsteinbearbeitung. 2 volumes, Stuttgart: Ruhle-Diebener Verlag, 1985, 1986; Dm 74 and 78 resp. Not seen. Treat properties of gemstones, machinery, accessories, cutting and polishing agents, dopping, sawing, cabochon work, sphere cutting, faceting, and with table of gemstones, their properties and methods of lapidary treatment. Articles extracted from this work were published in *Lapis*, 6, 3, 1981 to 8, 2, 1983.

FISCHER, LEOPOLD HEINRICH(1817-1886)

Ger polymath; b Freiburg i Breisgau; stud medicine Freiburg/Vienna; practised in Freiburg; fac U Freib zool, mineralogy, assoc prof 1845; prof 1859; very broad range of interests, noted for his many publs entomology, microscopy, mineralogy, archeol; advanced study of insect taxonomy; later in life famous for studies of Stone Age implements & distrib. Obit: H Rosenbusch, *N Jb Min*, 1886, II, 7 pp; Damour, *Bull Soc fr Min*, 9, 1886, 25-9. As seen below, he rarely used his first name.

2124. -----1868

Chronologischer Ueberblick | über die allmälige | Einführung der Mikroskopie | in das | Studium der Mineralogie, Petrographie u. Paläontologie. | [wavy rule] | Von | H.Fischer, | Professor der Mineralogie und Geologie an der Universität Freiburg, | [orn rule] | Freiburg i. Br. | Universitäts-Buchdruckerei von H.M.Poppen u. Sohn. | 1868.

8°: [1], [1 blank], 80 p; blue, print wrap, cover title in ruled frame; other author works back cover. 21.5 x 14 cm(8 1/2 x 5 3/8 in). Cropped; JSL. Cont: tp; blank p; text.

In this useful survey of the gradual introduction of microscopy in the study or mineralogy, petrography, and paleontology, Fischer explains how the use of magnification to study the fine structure and inner characters of transparent minerals naturally included examinations of gemstones. In the present work, which begins with an observation by Pliny, *Natural History*, on the presence of gas bubbles in glass imitations of gemstones, and passes on to others by Boetius De Boodt and Robert Boyle, he traces authors and their works which deal with the use of magnification in elucidating information. A large number of citations refer to gemstones, eg, color in opal, kinds of inclusions, ie, solid, liquid, gas, hydrophane opal, dendrites in agates and other gemstones, iris agate, labradorite and its colors, schiller, aventurescence, inclusions in amber, structures in silicified woods, perthite structure, inclusions in feldspars, agate nodules, etc. The literature is adequately identified, sometimes augmented with notes on illustrations or plates, but unfortunately the page numbers are not inclusive.

2125. -----1870-1873 Kritische, mikroskopisch-mineralogische Studien. *Bericht (Über die Verhandl) d Naturf Ges Frieburg i Breisg*, 5, 1869,1870, p 1-64 Supplements: ibid, Festchrift, zu Feier des 50jährigen Jubiläums d Naturf Ges Freib, 1871, I Fortsetzung(Art 1), p 1-64; ibid, Band 6, 1873, II Fortsetzung, p 1-96, 2 pls(1 col litho; 1 plain litho). Also issued sep, Freiburg i Breisgau: Universitäts Buchhandlung von Carl Troemer, 1870-73.

Advances compelling reasons why the polarizing petrographic microscope should be regularly used to study thin-sections of mineral samples taken from artifacts, noting that apparently homogeneous materials often show three or more distinct components. The diagnostic value of inclusions is also emphasized. Among species described in the first paper: hypersthene, catlinite, haüyne, sodalite, lapis lazuli, chlorastrolite[pumpellyite], and chiastolite. The first supplement also gives: violane, nephrite, serpentine, isopyre, sapphitrine, and cancrinite, while the second supplement emphasizes the importance of the microscope in distinguishing color-causing inclusions in transparent minerals, eg, iron oxides in quartz, in agate and some carnelians, in oligoclase sunstone, also albite peristerite, aventurine, heliotrope or bloodstone, amazonite, siderite("sapphire quartz"), tigereye, jasper, and others. A large section is devoted to coloring agents in water-free silicas, that is, in crystalline quartzes and also in water-containing chalcedony and agate, among others. Another useful section provides "keys" to identification of dark-hued inclusions and this surely must be one of the earliest specific guides to such inclusions. Each, paper is provided with a list of the minerals discussed. The color plate illustrates inclusions or aggregates in kyanite, heulandite, violane, eulysite[eulytine], hercynite, and gillingite; the uncolored plate shows dendrites in calcite and "plant" remains in flint and chalcedony. Probably because of the obscure journal in which published, these important inclusions papers have been overlooked by all modern writers on the subject.

2126. -----1875 Nephrite und Jadeit... Stuttgart: E.Schweizerbart'sche Verlagshandlung, 1875. Not seen. According to A B Meyer, *Zur Nephritfrage*, 1903, which see, the only differences between the first and second editions are the addition of 2 pages of preface and 2 pages of supplementary information and a subject index of 20 pages to the second edition.

2127. -----1880, 2nd edit

Nephrit und Jadeit | nach ihren | mineralogischen Eigenschaften | sowie nach ihrer | urgeschichtlichen und ethnographischen Bedeutung. | [rule] | Einführung der Mineralogie in das Studium der Archaeologie. | [rule] | Von | Heinrich Fischer. | [rule] | Mit 131 Holzschnitten und 2 chromolithograph. Tafeln.

| Zweite durch Zusätze und ein alphabetisches Sachregister vermehrte Ausgabe. | [rule] | Stuttgart. | E.Schweizerbart'sche Verlagshandlung (E.Koch). | 1880.

8°: [4], XLIV, 411, [4]p; 131 wood engrav; 2 litho col pls tip-ins. Pale gray wrap, cover title. 23.3 x 17.2 cm(9 1/8 x 5 5/8 in). Uncut. USGS Kunz Coll, GS 7-623; JSL.

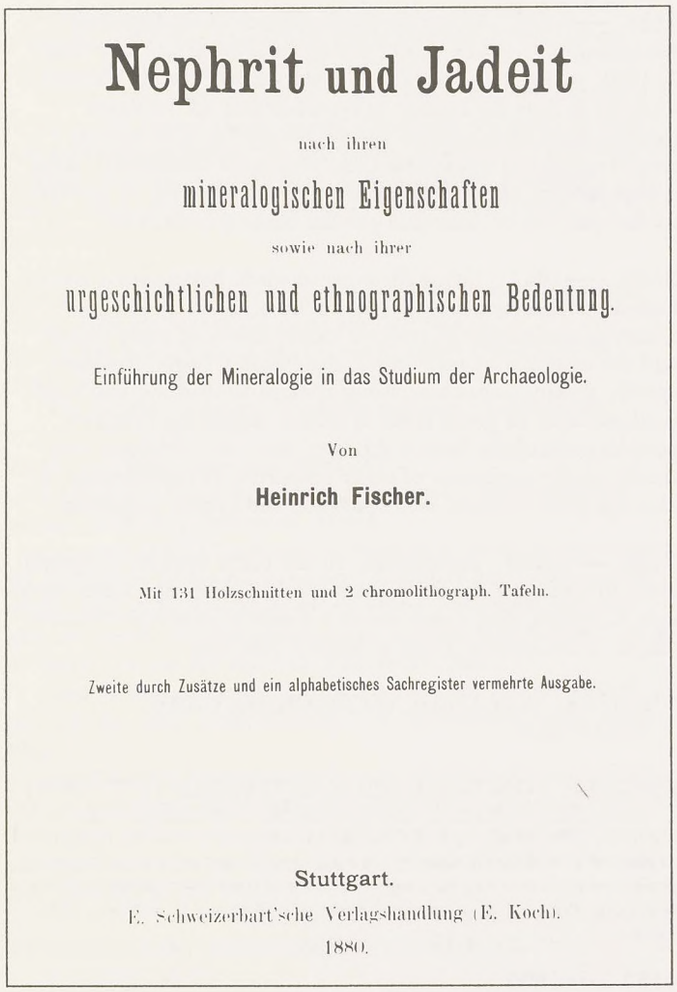
Cont: tp; 2nd edit pref; addenda; pref; tab cont; explan text cuts; subj index; text in 3 parts; addenda; author index; errata; pls explan.

Astounding work, both for its content involving an enormous amount of research into the literature, and its commentaries upon nephrite and jadeite jades as then known from all parts of the world and in all cultures. The first part, called the introduction, really consists of a potpourri of information on many aspects of jade and considers such topics as the ethnographic-archeologic significance of jade, original and secondary jade deposits, jade deposits in various countries, nomenclatural problems, misidentifications, the literature on deposits, museums with jade collections, carved jades and their uses, curious lore of jade, etc. However, it is the second and by far the largest part, p 63-318, that surely must still be the most exhaustive survey of the cultural-historical-scientific literature pertaining in whole or part to jade that has even been assembled within the covers of one book; it remains truly unique. The literature is dealt with chronologically according to this scheme: authors before Christ, and authors after Christ, the latter subdivided into annual periods of 1 to 100, 100-1200, 1200-1300, AD, and so on, by centuries, finally finishing with the period 1800 to 1875. In all, about 260 excerpts are taken from the authors and supplied with Fischer's commentary; the name of the author and his work are given, brief bibliographical data, and the substance of the remarks (if a direct quotation is not supplied). Obviously Fischer examined almost all the works, apologizing in places for his inability to obtain copies in those few instances where he could not personally examine the book. All future students of jade, especially of jade in antiquity, must forever be grateful to Fischer for this convenient compilation.

The third part is entitled "Special natural historical Part" and is no less interesting than the preceding matter, but like the first part, is a conglomerate of facts and further information on jade deposits, mineralogy, analyses, origin of jade, species of jade minerals, impurities in jade, and other topics, plus addenda to other text sections and remarks on the jadeite sculpture of Costa Rica and the largest known masses of nephrite.

Preliminary to his description of two Meso-American jadeites, P J J Valentini, "Two Mexican chalchihuites, etc." 1881, which see, provides an excellent summary of Fischer's treatise. He notes specially Fischer's conviction that Jades in America, "though they were dug from American soil, can not possibly be considered indigenous to this continent," thus adding fuel to then raging "jade question," or the theory that all jades came from Asia and were transported as worked objects or raw pieces across the Siberia-Aleutians route into the Americas.

In general, while the work is a goldmine of information, it is poorly organized and the reader is well advised always to consult the index first before attempting to find any bit of data. The text drawings are simple outline type showing many kinds of objects and motifs thereon while the two color plates depict more or less faithfully the colors of jade specimens shown as rectangular bars; one bar is of amazonite, for comparison only. An extremely rare work; I have seen only one other copy for sale in 30 years.



Nephrit und Jadeit

nach ihren

mineralogischen Eigenschaften

sowie nach ihrer

urgeschichtlichen und ethnographischen Bedeutung.

Einführung der Mineralogie in das Studium der Archaeologie.

Von

Heinrich Fischer.

Mit 131 Holzschnitten und 2 chromolithograph. Tafeln.

Zweite durch Zusätze und ein alphabetisches Sachregister vermehrte Ausgabe.

Stuttgart.

E. Schweizerbart'sche Verlagshandlung (E. Koch).

1880.

2127. When published this work represented the largest gathering of information on jades and jade objects available anywhere and is still of great value for its very bibliography and commentaries

2128. -----1878 Mineralogische-archäologische Studien. *Mitt anthropologische Ges Wien*, Bd 8, Nr 1 & 2, Wien, 1878. Separate: pale blue print wrap, [2] + p 8-61, 148-133, pls I-III. Actually a series of addenda to Fischer's *Nephrit und Jadeit* preceded by several pages of general comments and then giving the remarks according to pertinent pages, commencing with the preface to the work. These remarks seem not to have been incorporated in either the first or second edition and one may suggest that the work is not complete unless these comments are also at hand when perusing the second edition.

2129. -----1878 Die Mineralogie als Hilfswissenschatt für Archäologlie, Ethnographie u.s.w., mit specieller Berücksichtigung mexicanischer Sculpturen. *Archiv für Anthropologie. Zs f Naturgeschichte u Urgeschichte des Menschen*, Braunschweig, Bd 10, 1878, p 177-214, 345-57, 3 pls. Urges study of mineralogy and its identification techniques to assist in archeological and related studies.

2130. -----1881 Ueber die mineralogisch-archäologischen Beziehungen zwischen Asien, Europa und Amerika. *N Jb Min*, 2, 1881, p 199-227. Studying the accounts of several scientific travelers in Asia led Fischer to conclude that all the Asian jadeites come from a single source: Mung-Kong in Burma; several specimens investigated and properties determined; some Alpine jadeites also examined. Most space, however, is devoted to the question of American jadeites coming from Asia.

2131. -----1881 Ueber die mineralogisch Bestimmung archäologischer Steinobjecte. *N Jb Min*, B-Bd 1, 1881, p 113-31. Discusses desirability of positive identification of stone objects and the methods he uses: color, diaphaneity, luster, hardness, specific gravity, sometimes being enough to identify; also notes predominance of green color in stones, suggesting primitive peoples particularly fancied this hue; there are additional comments on the usefulness of other properties in identification as cleavage planes, streak, acid reactions, and optical properties.

2132. -----1886 Begleitworte zu der Karte über die geographische Verbreitung der Beile aus Nephrite, Jadeit und Chloromelanit in Europa. Mit Karte von E v Tröltsch. *Archiv für Anthropologie*, Brauschweig, 1886, p 563-90. Not seen.

FISCHER, WALTHER, see FISCHER, CARL WALTHER

FISCHER VON WALDHEIM, GOTTHELF (1771-1853)

Ger naturalist; b Waldheim, Ger; U Leipzig MD 1798; librarian & prof nat hist Mainz 1798-1804; prof & dir Mus Nat Hist Moscow from 1804; founder Soc of Naturalists in Moscow; versatile, learned in entomology, mineralogy, etc, and prolific writer; first to suggest comparative study of types to analyze early history of printing. Pogg I, 753; a fine engrav portr of in Wagner, J F, *Notizen...*, 1818, which see.

2133. -----1806

Museum Demidoff | [taper rule] | Mis En Ordre Systématique Et Décrit | par | G.Fischer. | Conseiller antique, Professeur-Demidovien, Directeur du Muséum | de l'Université Imperiale de Moscou, et Membre de plusiers | societés savantes. | [taper rule] | Tome Second. | Minéraux Et Petrifications. | Avec 6 planches. | [taper rule] | à Moscou, | Aux dépens du Propriétaire | a l'Imprimerie de l'Université Impériale. | 1806.

4°: XVIII, 300, [2]p; pi^9, A-Mm^4, Nn^3; last f supplied? Large fold front engrav pl showing panorama of Museum and grounds + 5 engrav pls bound-in at end of text(minerals, fossils; 1 fold). USGS Kunz Coll. GS 34-768; Agassiz II, 420.

Cont: 1/2tp; pl; tp; quote; dedic; pref; tab cont; text tp; catalog; index; addits; pl captions; tab of specimens(3,850); pls.

Catalog of the minerals, rocks, fossils, and many gemstones of all classes that had been assembled in the museum of Pavel Grigorievich Demidov(1738-1821).

2134. -----1816

Essai | Sur La Turquoise Et Sur | La Calaite | par | Gotthelf Fischer | Conseiller de Collège de Sa Majesté L'Empereur | [16 lines of honors, mbrships, etc] | [wavy rule] | Imprimé Aux Frais Des Frères Zosima. | Avec deux planches. | [orn rule] | A Moscou, | de l'Imprimerie de l'Université Impériale. | 1816.

8°: 46 p + [1 blank]f; 2 fold engrav pls, lettered in black but objects printed in very pale green ink. Pale pink wrap, title on cover. 20.3 x 12 cm (8 x 4 3/4 in). Cut. Very pale blue text paper. JSL. Agassiz II, 419.

Cont: tp; censor's permission; dedic; pref; biblio(p 11-13, 30 entries); two essays, blank f; pls.

The first substantial scientific monograph on turquoise, or calaite, and the similar-color fossil material known as odontolite that occurs in fossil teeth. The views of previous writers are summarized in the preface, beginning with Pliny and ending with contemporaries of Fischer Von Waldheim. See Pogue, *The Turquois*, p 20-2 for a review of such previous work, also Dr Heinrich David August Ficinus(1782-1857) "Ueber den Turkis und Kalait," in *Auswahl aus den Schriften der unter Werner's Mitwirkung gestifteten Gesellschaft f Mineralogie zu Dresden*, Bd 2, 1819, p 86-96, which provides a review of the second edition below. In the preface, it is made clear that two distinct substances will be dealt with under the name "turquoise," one a true mineral, the other a fossil. This is followed by a list of authorities and publications, and the text in which the external appearances, physical and chemical properties, and other features of the two substances are compared and distinct identities established. Further, the author proposes three varietal names for mineral turquoise: 1 *johnite*, named after chemist I F John, who had provided thus far the best analysis of mineral turquoise, 2 *agaphite*, after Demetreus Agaphi who had visited the Iranian turquoise deposits and had seen for himself that it was indeed a mineral that was being extracted from the ground, and 3 *calaite*, for a botryoidal form of true turquoise, the name after the ancient callaite used by Pliny. According to Pogue, ibid, Fischer Von Waldheim had been interested in the turquoise problem for some years and had previously published articles on the subject as early as 1806 but the above represents the culmination of his studies and as such is excellent. The handsome engraved plates depict fossil teeth. A very rare work, published under subsidy of Frères Zosima(or Zozima) of Moscow, a firm of jewelers.

2135. -----1818, 2nd edit

Essai | Sur La Turquoise | Et | Sur La Calaite, | Par Gotthelf Fischer, | Vice-Président De L'Académie Impériale | Médico-Chirurgicale. | Seconde Édition, | Imprimée Aux Frais Des Frères Zozima, | Et Ornée De Trois Planches. | [orn] | Moscou, | De L'Imprimerie D'Auguste Semen, | Imprimeur De L'Académie Impériale Médico-Chirurgicale. | [wavy rule] | M.DCCC.XVIII. [1818]

8°: 47 p; 3 fold engrav pls. Wrap(?). 19.2 x 12.5 cm(7 1/8 x 4 7/8 in). Cut. JSL.

Cont: tp; approb; dedic; pref; biblio(p 12-15, 32 entries); text; blank p; pls.

Though entirely rewritten it is substantially the same; an additional plate depicts more fossils. Also very rare.

2136. -----1818

Essai | Sur La Pellegrina, | Ou | La Perle Incomparable | Des Frères Zozima, | Par G.Fischer De Waldheim, | Vice-Président De L'Académie Impériale | Médico-Chirurgicale. | [orn] | Moscou, | De L'Imprimerie D'Auguste Semen, | Imprimeur De L'Académie Impériale Medico-Chirurgicale. | [rule] | M.DCCCXVIII. [1818]

8°: 48 p; white, hand-laid paper wrap, elab ornamental frame both covers enclosing title on front and woodcut of Venus arising from the sea on back cover. 19.8 x 13.1 cm(7 3/4 x 5 1/8 in). Cut. USGS 33-287; JSL.

Cont: tp; approb; pref; quot; 3 parts text.

A small but famous work which Kunz & Stevenson, *Book of the Pearl*, p 462, call "probably the only book ever devoted to a single pearl." This large and beautiful spherical specimen, unpierced, of wonderful luster and silvery color, was acquired by the Zozima Brothers, jeweler-antiquarians of Moscow, from an English admiral in Leghorn (Livorno) who had just returned from India. The Pellegrina remained in the collection of Z P Zozima until a few months before his death in 1827, when it is said it was stolen, along with other pieces of the collection(Kunz & Stevenson, ibid). The text first defines pearls and identifies the mollusks in which they are grown, including a discussion of nomenclatural problems and references to previous pearl literature(p 8-11, 23 entries), while the second part treats pearling banks and pearl fishing,and the third part describes ten examples of famous pearls, the last example being the Pellegrina. A very rare work.

2137. FISHER, LALA

Queensland Gems | (Reprint from "Steele Rudd's Magazine.") | By | Lala Fisher | Brisbane: | Powell & Co., Printers, Limited, Adelaide Street. | 1906. [title enclosed in ruled frame]

Centersewn: 13, [1], [2 blank]p; 7 photos. Limp, pebbled black cloth gilt, blind-ruled frame; pale purplish-gray endp. 23.9 x 15 cm(9 3/8 x 5 7/8 in). Glossy paper. Cut. JSL.

Provides important historical details on discovery, exploitation, cutting, and marketing of numerous gemstones, including corundums, diamond, opal, chrysoprase, topaz, beryl, etc. The jewelry firm of Messrs Flavelle, Roberts & Sankey Ltd, of Brisbane, is frequently mentioned in connection with their efforts to exploit, cut, and market native gemstones, and several photographs are of their lapidary and jewelry shops. Rare.

2138. FISHER, P J

Jewels | [rule] | P.J.Fisher F.G.A. | B.T.Batsford Ltd London [1965]

8°: 112 p; 4 bound-in glossy col pls includ in pag; 81 fig of which 52 on 12 bound-in glossy f includ in pag. Pale blue cloth, gilt spine; blue dj with col photo of rough diamonds, resume, vita, portr. 24.7 x 18.7 cm (9 3/4 x 7 3/8 in). Te stained pale blue. Cut. 35 s. JSL.

Cont: 1/2tp; tp; dedic & publ data; tab cont; ill list; ackn; color pl; introd; 7 chs; tabs; index.

Handsome, elementary gemological textbook meant for popular consumption but taking in too many topics and treating each only superficially. The writing is pedantic and redundant, with numerous errors. Treats history, origin & nature of gemstones, diamonds, important gemstones, organic materials, diamond cutting, gem testing, and a set of identification tables for a very few major gemstones. There is no bibliography. Rev B W Anderson, *J Gemm*, 9, 10, 1965, 361-3; *G & G*, 11, 9, 1965, 287.

2139. -----1966, New York edit

The | Science Of Gems | [2 orns] P.J,Fisher, F.G.A., F.R.S.A. | Charles Scribner's Sons [orn] New York [1966]

8°: 189, [1 blank], [1], [1 blank]p; 4 bound-in glossy col pls, not includ in pag; 89 fig. Black cloth, silver lett spine; col dj, col photo of gems on cover; portr of author back cover; resume, vita. Pale blue endp. 26 x 19 cm(10 1/4 x 7 1/2 in). Cut. $7.95. LC 66-22665. JSL.

Cont: 1/2tp; tp; publ data; dedic; ackn; tab cont; ill list; pref; text tp; 7 chs; 3 appends; gloss; biblio(p 175-8, 19 entries); index tp; index; blank p; vita; blank p.

Minor revisions throughout; use of offset allowed publisher to place text figures closer to text discussions of same; glossary and bibliography added; on the whole, considerably improved in accuracy and visual appeal. Rev B W Anderson, *J Gemm*, 11, 4, 1963, 133-5; *G & G*, 12, 6, 1967, 192; *Austral Gemm*, 10, 6, 1969, 27.

2140. -----1972? Cementback, New York. Same pagination; omits color pls; heavy col wrap like previous dj. 27.3 x 20.7 cm(19 3/4 x 8 1/8 in). Cut. LC same. ISBN 684-31037-6, cloth, 684-12733-4, paper $3.95. JSL.

"The Scribner Library - Emblem Editions - Gemmology."

2141. -----1966, Ger edit, Munich

P.J.Fisher | Das | Juwelenbuch | [logo] | mvg-moderne verlags gmbh[sic] [München, 1966]

Cementb: 141, [2 advert], [1 blank]p; 4 tip-in glossy col pls; 81 fig (52 on 12 bound-in glossy f includ in pag). Pale grayish-white cloth, title & logo in red on spine. Col dj, col step cut gem on cover; col photo back cover; resume, vita & portr. 24 x 17 cm(9 1/2 x 6 3/4 in). Cut. DM 19.80. JSL.

Cont: 1/2tp; dedic; tp; publ data; tab cont; col pl; introd; ackn; 8 chs; tabs; gloss; biblio(p 138, 20 entries); index; advert; blank p.

Translated by Linda Jumez; last ch added & discusses valuation of gemstones and pearls, with explanation of pricing scheme for pearls. Adheres closely to original text but incorporates changes for the better. Cheap paper. Rev *Zs Dt Gemm Ges*, H 58, 1966/67, p 37.

FITZPATRICK, JAMES PERCY (1862-1931) & WILSON, G H

J P F South Afr merchant, politician; b Cape Colony; educ in Bath, Engl; recalled to South Africa at age 16 upon death of father; after early aimless years, became a merchant and involved deeply in politics & widely acquainted with eminent persons; knighted.

2142. -----1932

South African | Memories | By | Sir J.Percy Fitzpatrick | Author Of "The Transvaal From Within," | "Jock Of The Bushveld," Etc. | Preparcd for the Press from the Manuscript | of the Author by | G.H.Wilson | With Four Half-Tone Plates | [logo] | Cassell And Company Ltd. | London, Toronto, Melbourne and Sydney [1932]

8°: 319, [1]p; tip-in front portr pl of author on a glossy f + 3 photo pls tip-in. Dk blue cloth, blind cover frame; gold rules & lett spine. 23.3 x 15.5 cm(9 1/8 x 6 1/8 in). Cut. Te stained blue. Ribbed paper, resembling hand-laid. JSL.

Cont: 1/2tp; pl; tp; publ data; fwd; tab cont; ill list; biogr; introd; 19 chs; index.

Published posthumously from materials left to G H Wilson about a year before Fitzpatrick's death. A short biography precedes the text. Each chapter is to be regarded as an independent essay, among which the following are of special interest to the student of the diamond mining industry in South Africa. Ch 1, p 26-37, treats Rhodes and Beit, Ch 2, 38-55, on Kimberley and relating some highly interesting and significant episodes in the campaign waged by Rhodes to consolidate the mines. Ch 6, 90-9, discusses the Premier mine and tells how it was

discovered. Lastly, Ch 15, 240-8, relates the true story of the finding of the Excelsior diamond. Excellent, readable essays, of great value because of their eyewitness character.

2143. FLADUNG, J A F

Versuch | über die | Kennzeichen der Edelsteine | und deren | vortheilhaftesten Schnitt. | Zum Theile nach der Beschreibung des Museums | des Herrn de Dree | mit Abänderungen und Vermehrungen | von | J.A.F. Fladung. | Nebst | einem Verzeichnisse und einer Abbildung der aus= | gewählten Edelstein=Sammlung | des Herrn | J.F. von der Null. | [taper rule] | Pesth, 1819. In Hartlebens Verlag.

8°: [6], IV, [6], 138, [2]p; text fig; fold engrav pl tip-in ahead of tp; 2 fold tabs includ in pag. Pale blue-gray wrap, title in a frame of stars on cover; publ in same frame back cover. 18.5 x 11 .5 cm(7 1/4 x 4 1/2 in). Uncut. USGS Kunz Coll, GS 34-249; JSL.

Cont: tp; quot; dedic; pref; index; insert of addit remarks; text; fold tabs(p 135-38); advert; pl.

The text falls into three distinct parts: the first, a short essay embodying general remarks on gemstones and their properties and the determination of specific gravity, the second, a systematic description of gemstones, and the last part treating technical matters. The descriptions of gemstones include names in other languages besides German but is otherwise undistinguished. However, of much more interest is the last part which discusses in detail the lapidary arts with emphasis laid upon the correct proportions of faceted gems if they are to appear at their best; this is one of the earliest places in the literature where correct proportions are recognized as being vital to development of brilliance. Here also appear observations on the use of backing foils for transparent gems and their imitations. The folding leaves, unusually included in the pagination, list and describe the cut gems in the cabinet of Jacques Friedrich von der Null(see also MOHS, F, 1804, for more on this collection). These gems are shown in outline, alone, or in settings, upon the engraved plate. The tables give the plate number, name, and weight of the gem, its color, source, and specific gravity. A very rare work.

2144. -----1828

Edelstein=Kunde | in Briefen | an zwey deutsche Fürstinnen. | Von | J.A.F.Fladung. | Mit einem Kupfer. | [taper rule] | Wien, 1828. | Im Verlage bey J.G.Heubner.

8°: [1], [1 blank], VIII, 125, [l]p; 1 engrav pl tip-in ahead of text; a fold tab tip-in facing p 69. Pale yellow-brown print wrap, dec frames both covers enclosing title on front & publ back. 13.8 x 10.5 cm(5 1/2 x 4 1/8 in). Cropped. BM(NH).

Cont: 1/2tp; tp; quot; dedic; fwd; tab cont; pl; 12 "letters;" tab of colors; tab hardness: price list cut diamonds; the Urim and Thummim; indexes of stones; errata.

Popular presentation of the essential facts about gemstones presented as twelve letters to two German princesses, and including anecdotes from the experiences of practical jewelers, all "clothed in the speech of daily surroundings." Treats properties, identification methods, the diamond and other gemstones, birthstones, curious lore, gem cutting styles, qualities of cut gems, etc. The text is not carefully organized and the author jumps from one topic to another as in Chapter 9 and in 12, the latter being more like an appendix in which he treats cheaper gemstones as agates and jaspers. The folding table, 25.5 x 19.5 cm(10 x 7 3/4 in) lists properties of gemstones from diamond to peridot. Very scarce.

2145. FLAHAUT, JEAN Le diamant. *Nouveau Traité De Chimie Minérale*, publie sous la direction de Paul Pascal... Tome VIII, Premier fascicule, *Carbone*... Paris: Masson Et Cie, Editeurs, 1968, p 80-157, tabs, figs. After a few generalities on diamond, the main portion of text, p 80-157, forms a succinct compilation of all important data on diamond as culled from the literature: history, occurrences, synthesis, properties, crystal structure, X-ray diffraction, physical properties, thermal & electrical properties, chemistry, transformation of diamond into graphite, uses. All entries with reference lists.

2146. FLANIGEN, E M, BRECK, D W, MUMBACH, N R & TAYLOR, A M Characteristics of synthetic emeralds. *Amer Min*, 52, 5/6, 1967, 744-72, 10 fig, 7 tab, 46 ref. A most valuable article: synthesis techniques & apparatus; fluxes; properties; inclusions; luminescence; composition; structure; IR spectra. Suggests methods of distinction from naturals.

FLAUENSGAARD, J, see BORGLUND, E

FLEENER, F L, see DAKE, H C, et al, 1938

2147. FLEMING, IAN(1908-)

Ian Fleming | The | Diamond Smugglers | With an Introduction by | 'John Blaize' | formerly of the International | Diamond Security Organization | [logo] | Jonathan Cape | Thirty Bedford Square · London [1957]

8°: 160 p; front (a newspaper cartoon); 34 photos on 8 bound-in glossy f; 3 maps. Black cloth-type paper over bds; white spine title. 19.8 x 13.5 cm(7 7/8 x 5 1/4 in). Cut. JSL.

"This book was made the subject of a series of articles which appeared in the *Sunday Times* [London] during September and October, 1957." Written in Fleming's well-known coloratura, but aside from several pseudonyms to conceal identities of security agents, it is based on fact and describes the serious problems facing the diamond trade in South Africa as a result of widespread smuggling and what is being done to stop it. As with all of Fleming's works, this one proved to be extremely popular and passed into a number of editions. Those described below may not be all that exist.

2148. -----1958, New York edit

Ian Fleming |...] Diamond Security Organization | The Macmillan Company | New York 1958

16°: 160 p; same ill; turquoise-blue cloth, white brilliants on cover; white lett spine; col dj, resume, vita, other author bks. 19.8 x 13.2 cm(7 3/4 x 5 1/4 in). Cut. $3.25. LC 58-8369. JSL.

2149. -----1960, London, paper

The Diamond | Smugglers | Ian Fleming | [logo] | Unabridged | Pan Books Ltd: London [1960]

Cementb: 152, [1], [7 advert]p; front cartoon; 9 photos on 2 glossy f; 3 maps; heavy col paper wrap. 17 .9 x 11.1 cm(7 x 4 3/8 in). Cut. 2 s 6d. Reprinted 1963, 1964. JSL.

2150. -----1964, New York, paper

Ian Fleming | The Diamond | Smugglers | [logo] | Collier Books | New York, N.Y. [1964; title spread over 2 pages]

Cementb: 124, [4 advert]p; front cartoon; 34 photos on 8 glossy f; 3 maps. Col wrap. 18 x 10.6 cm(7 x 4 1/8 in). Cut. $ .95.

2151. -----1965, New York, Dell Books, paper

Ian | Fleming | [rule] | The Diamond | Smugglers [foregoing enclosed in box] | A Dell Book [New York: Dell Publishing Co., 1965]

Cementb: 159, [1 advert]p; 3 text maps only. Col paper wrap. 18.2 x 10.7 cm(7 1/8 x 4 1/4 in). Cut. Ae stained blue, $.50. JSL.

2152. FLETCHER, EDWARD

Pebble Polishing | A guide to collecting, tumble polishing | and making baroque jewellery | by | Edward Fletcher | London | Blandford Press [1972]

8°: 104 p; 9 col pls; 45 fig; 4 maps. Glossy paper over bds; col photo & black lett on front & spine; b&w photos, resume back cover. Photo endp. 21.5 x 14.7 cm(8 1/2 x 5 3/4 in). Cut. £ 1.00. ISBN 0 7137 0566 3. JSL.

Cont: endpapers integral with text; 1/2tp; tp; publ data; tab cont; ackn; introd(tip-in errata slip); 8 chs; supplier list; maps; index.

Collecting beach pebbles, and what to do with them, aimed at residents of the British Isles. Excellent first two chapters on where and how to hunt, how to select pebbles that can be polished; these are followed by technical chapters on tumbling machines (with valuable comparisons between makes), how to use them, how to process non-native gemstones, making jewelry, other lapidary processes, legal problems in business and on trips. Rev *J Gemm*, 13, 5, 1973, 188-9; *Gems*, 4, 4, 1972, 48.

2153. -----1973, New York

Pebble | Collecting | & Polishing | By Edward Fletcher | [logo] Sterling Publishing Co., Inc. New York [1973]

Title decorated with small photos in lieu of several letters; "Edited and adapted for the American audience by Joe Rothstein. Photographs by Michael Allman and Joe Rothstein..."

Edgesewn: 96 p; 69 ill(20 col). Col plasticized paper over bds; col photos on covers, resume. 20.9 x 16.3 cm(8 1/4 x 6 3/8 in). Cut. $4.95. LC 72-95210; ISBN 0-8069-3054-3 & 3055-1. JSL.

Cont: tp; publ data & ackn; tab cont; introd; 6 chs; index.

Entirely rewritten; resembles original only in scheme; changes in matter reflect American materials, suppliers, magazines, etc. Almost all new illustrations. Rev *G & G*, 14, 12, 1974-75, 376; *Lap J*, 32, 4, 1978, 971-2.

2154. -----1973

Rock and Gem | Polishing | a complete guide | to amateur lapidary | by | Edward Fletcher | London | Blandford Press [1973]

8°: 113, [8]p; final p (index) is inside rear flyleaf; both endp integral to first & last sections; 7 col photos on 2 bound-in glossy f; 68 fig; 7 sketch maps of localities. Glossy col paper over bds; col photo on cover; 2 photos back cover. Pictorial photo endpapers. 21.4 x 14.8 cm(8 3/8 x 5 7/8 in). Cut. ISBN 0 7137 0617 1. JSL.

Cont: 1/2tp; tp; publ data; tab cont; ackn; introd; 11 chs; maps(forming Ch 11); index(on flyleaf).

Amplifies previous book, but more lapidary techniques explained for those wishing to advance farther in the hobby. Lucidly written, treating: sawing, flats, tumbling, cabochon work, drilling, faceting, collecting, buying stones, jewelry settings; lists of suppliers, magazine, clubs in British Isles. None of the operations is treated in depth. Fine illustrations. Rev M J O'Donoghue, *J Gemm*, 14, 1, 1974, 36; *Lap J*, 32, 4, 1978, 971; G Hunt, *Gems*, 5, 6, 1973, 55.

FLETCHER, LAZARUS(1854-1921)

Brit mineralogist; LLD St Andrews U; other acad degrees includ PhD; Keeper of Minerals, Brit Mus(Nat Hist); later Dir Dept Minerals 1880-1919. Obit A Liversidge, *Proc Roy Soc London*, ser A, 99, 1921, p ix-xii, portr.

2155. -----1911

British Museum (Natural History) | Special Guide No.5 | [double rule] | Guide To The ExhibitIon | Of | Animals, plants, | And | Minerals | Mentioned In The Bible | [logo] | London: Printed By Order Of The Trustees | Of The British Museum | 1911 | [All rights reserved]

8°: vii, [1 blank], 74, [2 advert]p; 7 fig. Pale gray wrap, title on cover; spine title; admissions on back. 21.5 x 13.8 cm(8 1/2 x 5 1/2 in). Cut. 6 pence. JSL. LC 11-34611.

Cont: tp; publ data; pref; tab cont; text in 3 parts; index; advert.

Part III, written by Fletcher, treats gemstones mentioned in the Bible in brief but scholarly fashion and is of much help to anyone who must puzzle over the real identities of the mineral substances. The stones are those in the foundations of the New Jerusalem, the breastplate of the High Priest, the shoulder pieces to same, the ephod, ornaments of the King of Tyre, and others. Strangely, and despite its obvious merits, this work is seldom referenced by the modern horde of writers on Biblical gemstones.

2156. -----1911, 2nd edit Same title, but after the logo appears "Second Edition." Numerous small changes in Part III text, now on p 45-72; some changes are important. A 3rd edit, issued in 1913, appears to be merely a reprint.

2157. -----1915 Stones, Stōnz, Precious [An article contrib to:] *International Standard Encyclopedia*, Chicago: Howard-Severance Co, vol 5, 1915, p 2856-62. On the precious stones mentioned in the Bible.

2158. FLETT, JOHN SMITH(1869-1947) & HILL, J B

The geology of the Lizard and Meneage. *Mem Geol Survey Engl & Wales*, Explanation of Sheet 359, London, 1912. 8°: viii, 280 p; XV pls; 10 fig. JSL. Famous ornamental serpentines of the Lizard, Cornwall described in Ch 6, p 61-80, with map and plate of thin-sections; comments on the lapidary industry using this material on p 254-7. Numerous references to the serpentine in the bibliography, but mainly on genesis and petrography. GS 12-888.

FLINT, E E, see LEMMLEIN, G G

2159. FLINT, E P The Hannay diamonds. *Chemistry and Industry*, 23 Nov 1968, p 1618-27. Biogr note on Hannay and

his work, others who contended for the honor of being first to synthesize diamond, how Hannay's diamonds were identified, the controversy surrounding them, Hannay's methods; 73 refs to literature. Useful review of Hannay diamond problem.

2160. FLINT, W & GILCHRIST, J D F, editors

Science In South Africa: | A Handbook And Review. | Prepared Under The Auspices Of The South African | Governments And The South African Association | For The Advancement Of Science. | Edited By | Rev.W.Flint, D.D., | Librarian of Parliament, Cape Colony, | And | J.D.F.Gilchrist, M.A., D.Sc., Ph.D., C.M.Z.S., | Government Biologist, Cape Colony. | Cape Town, Pretoria and Bulawayo: | T.Maskew Miller. | 1905. | [All Rights Reserved]

8°: x, 505, [1 blank]p; col fold map of South Africa tip-in as front; 6 text maps; 57 fig; 2 tip-in col pls with tissues. Olive-green cloth, blind rules & gold title on cover; gold spine title. Green, floral pattern endp. 25.3 x 16 cm(10 x 6 1/4 in). Fe and be untrimmed. Paper browned. JSL.

A handbook prepared for the visit of the British Association to South Africa in 1905. Articles by several authorities include physical features, anthropology, zoology, botany, geology, mineralogy, etc, with an article in the mineralogical section by G F Williams entitled "The diamond mines of Kimberley," p 318-31, and described under his name. LC 7-40821.

2161. FLORENCE. ROYAL GALLERY Raccolta di 200 tavole intagliate contenenti gemme antiche che si conservano nella Real Galleria di Firenze. Parte Prima (e Seconda). Firenze: Pagni e Bardi, 1799. 2°: 2 parts in one; 2 titles and 200 pls engrav on copper designed by J D Campiglia. Not seen; from a bookseller's catalog of 1974.

2162. FLORES, TEODORO Granates, turmalinas, micas y feldspatos del Distrito Norte de la Peninsula de la Baja California. *Anales del Instituto Geologico de Mexico*, Mexico, 4, 1930, 53-78, pls 1-4. Not seen.

FOBES, HARRIET KEITH

Miss Fobes sold jewelry from a studio in 153 Carnegie Hall, New York; lecturer on gemstones and jewelry as shown upon a 4 leaf pamphlet, listing talks and to whom previously given, and with her portr and photos of jewelry sets.

2163. -----1924

[double rule] | Mystic Gems | [double rule] | Harriet Keith Fobes | [rule] | "There is upon Life's Hand a Magic Ring, | The Ring of Faith-in- Good, Life's gold of gold; | Remove it not, lest all Life's charm take wing." | [vignette] | [rule] | Boston | Richard G.Badger, Publisher | The Gorham Press | [double rule] [1924]

8°: [2 blank], 117 p; tip-in col front pl with tissue; 12 tip-in photo pls. Bright orange, gold-flecked paper bds, black cloth spine, pale orange title label. White dj, front pl on cover, the words "Limited Autographed Edition" appearing at foot of front dj cover but perhaps referring only to this binding; other copies have been examined with orange cloth, black spine cloth, etc. 23.6 x 15.7 cm(9 1/4 x 6 1/4 in). Cut. Errata slip loose. Pale tan paper, yellowing. LC 25-3210. JSL.

Cont: blank f; 1/2tp; pl; tp; publ data; dedic; ackn; pref; tab cont; ill list; 12 chs; blank p.

One of the best works on the twelve birthstones, each taken up in order of months from garnet for January to turquoise for December. Each discussion begins with a stanza of a poem on birthstones, gives curious lore, identifies the stone mineralogically, and furnishes interesting anecdotes and stories, and is accompanied by a photographic plate on glossy paper showing jewelry using the gemstone concerned. Pleasant reading, and mostly mineralogically accurate. Covers wear badly and bindings are shaken easily with the result that good copies are uncommon.

2164. FOCK, CORNELIA WILHELMINA Jacques Bylivelt aan het hof van Florence goudsmeden en steensnijders in dienst aan de eerste groothertogen van Toscane. Alphen 1975, ix + 148 p, 48 ill, paper wrap, 39.5 x 22.5 cm. "A collection of articles on Jacques Bylivelt and other goldsmiths and stone-cutters in the Florentine court. In English, French and Dutch." Not seen; from T.Heneage Cat 8, London, 1984, no 1073. It is assumed that "stonecutters" means "lapidaries" rather than stone masons.

2165. -----1976 Les vases en lapis-lazuli des collections Medicéenes du 16ᵉ siècle. *Münchner Jahrbuch der bildenden Künste*, 27, 1976, 119-54. Not seen; from COCKS, A S & TRUMAN, C biblio p 373.

FOELIX, COMTE DE, see GAVARNI

FOGELMARCK, S, see STEINGRÄBER, E, 1968

FOGGINI, P F, see EPIPHANIUS, 1743

2166. FOKKE, AREND De graveur... handleidning tot de daktyloglyphia, of graveerkunst in edel gesteenten stempel snijden... graveeren in hout en koper en om met couleuren te drukken etc. *Volledige Beschrijving van alle Konste*, vol 13, Dordrecht: A Blusse en Zoon, 1796, xii, 359, [6]p; 10 fold engrav pls. On gem engraving; plates show tools and ateliers. Not seen.

2167. FOL, WALTHER(1832-1890)

Catalogue | Du | Musée Fol | [rule] | Antiquités | Premiere[-Deuxième] Partie | Céramique Et Plastique | [vignette] | Genève | H.Georg [bar] Cherbuliez | Libraires | 1874[-1875] [2 uniformly bd vols]

Vol I: 8°: XI, [1 blank], 302, [2 blank]p; 107 text wood engrv. Dk brownish-red pebbled cloth, gold title with title vignette in black on cover & in blind ruled frame; similar frame back cover; gold title & blind rules on spine. Pale gray, dull finish endp. 19.3 x 12.8 cm(7 5/8 x5 in). Cut. Paper yellowing and perishing. JSL.

Cont: 1/2tp; print data; tp; pref; tab cont; text; blank f.

Vol II: Catalogue |...| Deuxième Partie | Glyptique Et Verrerie | Par W.Fol. | [vignette] |...| 1875

8°: XXVIII, 556 p; 15 col litho pls bound-in, each with tissue except the first; 11 text wood engrv.

Cont: 1/2tp; print data; tp; pref; errata; tab cont; 2 part tab; introd; text; pls.

Description of contents of Fol Museum in Genf, Switzerland. The first 415 pages of the second volume form a detailed catalog of the engraved gems, including seals, intaglios

and cameos, numbering 3,499. These are treated by subject categories with brief introductory remarks preceding each category. The rather crude but colorful lithographic plates were drawn by Fol while the text figures were done by H Hammann. The color plates are mostly glasses and glass objects; a few are of ivories. Fürtwangler, *Die antiken Gemmen*, 3, p 429, notes that the gems are largely glass and complains that in Fol's succeeding work, see below, the use of a gemstone name coupled with a glass is misleading. As an example, no 1796, "Deux Amours...Topaze... Pâte," the word "paste" is given to be sure, but the initial substance word could easily be mistaken as suggested by Furtwängler for the genuine topaz. R Goodland, *Biblio Sex Rites*, 207.

2168. -----1874-78 Le Musée Fol. Études d'art et d'archéologie sur l'antiquité et la Renaissance. 4 vol. Genève, Bâle, Lyon: Librairie H.Georg, 1874-1878. 2°. Vol I terracottas, the remainder "Choix d'intailles et de camées antiques, gemmes et pâtes decrits par W Fol, accompagné de 100 planches gravées sur cuivre." Not seen.

2169. FOLK, ROBERT L & WEAVER, CHARLES EDWARD A study of the texture and composition of chert. *Amer J Sci*, v 250, July 1952, p 498-510, 4 pls. JSL. Found that chert consists of quartz with interstitial water-filled spaces of very small size in several types of textures described and depicted in photo-micrographs.

FONTAINE, W M, see WARD, L F, et al, 1899, 1900.

FONTANIEU, PIERRE-ÉLIZABETH(1730-1784)

Fr antiquary; early career in Fr Army; 1767 placed in charge crown possessions; mbr several learned academies. *Dict Fr Biogr*, 14, 339.

2170. -----1778

L'Art | De Faire | Les Cristaux Colorés | Imitans | Les Pierres Précieuses; | Par M.Fontanieu, | Intendant & Contrôleur général des Meubles de la | Couronne, des Académies royales des Sciences, & | d'Architecture. | [roy arms, woodcut] | A Paris, | De L'Imprimèrie De Monsieur. | [rule] | M.DCC.LXXVIII. [1778]

8°: [1], [1 blank], iv, 29, [1 blank]p; pi^3, A^8, B^7; fold engrav pl; fold tab; ch orns. 19.2 x 12.5 cm(7 1/2 x 4 7/8 in). Cropped. JSL. USGS Kunz Coll, CS 34-718, which gives height as 21 1/2 cm.

Cont: 1/2tp; tp; dedic; introd; 5 parts text; engrav pl(of furnaces); tab; privilege; blank p.

On the preparation of glasses to imitate various gemstones; making several basic fondants or melts, coloring agents, colors for painting on enamels, methods of firing and description of furnaces, and a folding table which gives recipes arranged according to the gemstone being imitated. The folding engraved plate shows a general view of the furnace and its cross-sections. Rare.

2171. -----1781, Ger transl

Des Herrn Fontanieu | Kunst | durch | gefärbte Glasflüsse | ächte Edelsteine | nachzuahmen. | Aus dem Französischen ins Deutsche übersetzt, | von D.R. | [rule] | Samt einem Anhang | über die | Mahlerey und Zeichnung | Mit I. Kupfer. | [orn] | [orn rule] | 1781 | In der Stettinischen Handlung in Ulm.

8°: 28, [4], 92 p.; fold engrav pls with fold tab tip-in at end of first treatise. 19 x 11.5 cm(7 3/8 x 4 1/2 in). Uncut. USGS Kunz Coll, GS 34-450.

Adds appendices on painting and drawing.

2172. -----1786, another Fr edit

L'Art | De Faire | Les Cristaux Colorés | Imitant | Les Fierres Précieuses; | Par M.Fontanieu, | Intendant & Contrôleur général des Meubles de la |Couronne, des Académies royales des Sciences & | d'Architecture. | [rule] | Prix, 1 liv. 4 sols, broché. | [rule] | [roy arms] | A Paris, | Chez P.Fr.Didot le jeune, Imprimeur de Monsieur, | quai des Augustins. | [double rule] | M.DCC.LXXXVI. [1786]

Not seen: collation from USGS Kunz Coll, GS 34-213: 2 p, leaf, [iii]- iv, 29 p, fold tab, fold diagram, 20 cm.

2173. -----1787, Engl transl

The | Art | Of | Making Coloured Crystals | To imitate Precious Stones, | Translated from the French of Mons.Fontanieu, Member | of the Royal Academies of Sciences and Architecture: | To Which Are Added, | Numerous Explanatory Notes; | And, | A short Account of the Nature and Composition | Of The True Gems, | With the Method to distinguish them from the Factitious: | Also, | A New Theory of Phlogiston, Electric Fluid, &c. | [rule] | By William Drew, Esq. | [double rule] | London. | Printed for the Author, at the Literary=Press, No.14, Red- | Lion-Street, Clerkenwell, and sold by all Booksellers. | M, DCC, LXXXVII. [1787]

8°: iv p + p [5], 6-60; $A\text{-}C^8$, D^4, E^2; engrav pl. 20.3 x 12.8 cm(8 x 5 in). Cropped. First section is slightly greenish paper. BM(NH); USGS Kunz Coll, GS 34-326; JSL.

Cont: tp; blank p; advert(pref); introd; 5 parts text; observations; pl explan; tab; addits; hardness & spec gravity tab.

Drew notes that the French original "is written in the language of chemistry, and therefore not intelligible to every reader. To remove in some measure this defect, and render it more useful to the English artist, I have ventured to add some notes... [and] joined a short account of the properties and composition of the true gems, so far as they have hitherto been ascertained by chemical analysis." He further writes that this work "affords me also the opportunity of advancing a new theory of Phlogiston, which explains in a satisfactory manner, many remarkable phenomena attending combustion and the calcination of metals." His translation is straightforward but a smaller engraved plate, no longer folded, is now incorporated in the text. The additions referred to are merely brief descriptions of the diamond, corundums, topaz, zircon, emerald & beryl, amethyst, and other quartz varieties, etc, with a table listing the gemstones and their hardnesses along with current values of specific gravity. The hardnesses run from "3" for chalk to "20" for diamond. Drew says nothing about Phlogiston other than his few remarks in the preface. Insofar as distinguishing true gems from their glass imitations, presumably one had to test for hardness and then establish specific gravity.

FONTENAY, E, see JANNETAZ, P M E.

FONTENELLE, JULIA DE, see JULIA DE FONTENELLE

2174. FOORD, EUGENE EDWARD(1946-)

Mineralogy And Petrogenesis Of Layered Pegmatite- | Aplite Dikes In The Mesa Grande District, San Diego County, California | A Dissertation | Submitted To The Department Of Geology | And The Committee On Graduate Studies | Of Stanford University | In Partial Fulfillment Of The Requirements | For The Degree Of | Doctor Of Philosophy | By | Eugene Edward Foord | February, 1976 [Priv publ, Palo Alto, California]

Edge-fastened: xv, 326 f, printed recto only; 109 fig (includes 33 actual col photo prints & 20 b&w prints cemented into text); 36 tabs; 2 fold maps in pocket of inside back cover. Bright red cloth, gilt title on cover. 28 x 21.7 cm(11 x 8 1/] in). Cut.

Cont: tp; certifications; tab cont; ill & tabs lists; abstract; ackn; text; ref(f 307-26, 284 entries).

The most detailed and definitive study of the celebrated gem-bearing granitic pegmatite deposits of the Gem Hill tourmaline mines, Mesa Grande, San Diego Co, Calif that has yet been published. It is largely geological/mineralogical but does contain much material on the famous polychrome gem and specimen tourmaline crystals for which these occurrences are noted, also, the cavities in which these crystals form, color and color-zoning and causes therefor, and with many colored crystals appearing in the photographs. A very few copies of this dissertation were duplicated(without the actual photographic prints) and sold.

FORBES, C, see A LA VIELLE RUSSIE, 1983; also SOLODKOFF, A v; also WATERFIELD, H

FORBES, MALCOLM S, see SOLODKOFF, A v

2175. FORBES, ROBERT JAMES Studies in ancient technology. Volume VII. Leiden: E.J. Brill, 1963; not seen.LC 55-12830.

2176. -----1966, 2nd edit

Studies | In Ancient Technology | By | R.J.Forbes | Volume VII | With 36 Figures And 14 Tables | Second Edition | [logo] | Leiden | E.J.Brill | 1966

16°: [8], 259, [1 blank]p; 36 fig, 14 tab. Straw-yellow cloth, gilt title & logo on cover with blind frame; gilt title & vol no, rules, on spine. Pale yellow endp. White dj with photo. 23.8 x 16 cm(9 3/8 x 6 1/4 in). Cut. JSL.

Cont: 1/2tp; tp; publ data; tab cont; prefs; 3 chs; append (chronological biblio p 249-51, 72 entries); index; blank p.

One of the series of excellent studies by technological/scientific historian Forbes, in this instance, discussing "Ancient Geology" in Ch 1, "Ancient Mining and Quarrying," in Ch 2, and "Ancient Mining Techniques," in Ch 3, each chapter with extensive reference lists, and containing much of interest for the gemologist. In Ch 1, the origin of minerals and ores as conceived by ancient authorities is discussed, with gemstones included, and with one view holding that water is the substance of gemstones(p 75). In the second chapter are comments on mining of gemstones and trade in same, p 108-9, with Table VII, p 116-7, showing certain gemstones and the suggested earliest periods in which they were mined. In another place, the quarrying of monumental and ornamental stones is described, p 167 ff, and lastly, on p 237-41, appear specific comments on ancient gem mining with Table XIV listing stones from amethyst to turquoise, plus some as yet unidentified species, giving Egyptian, Sumerian, Accadian, and Greek terms for same. The bibliography contains many entries on gem works.

2177. FORD, TREVOR D Blue John fluorspar. *Proc Yorkshire Geol Soc*, 30, part 1, no 4, 15 Sept 1955, p 35-60, Pl 2. Also in pale gray print wrap, 21.7 x 14 cm(8 1/2 x 5 1/2 in). JSL. On the geological occurrence, with map, and mineralogy & historical notes on the famous deposits of banded blue & white massive fluorite found near Castleton, Derbyshire. Discusses cause of color, specially in connection with its change due to heat-treatment. While mainly mineralogical, this interesting and valuable paper provides much on the history of Blue John as an ornamental material and the objects and the artisans who made them. There are 48 references. A shorter paper based on the foregoing appeared as "Blue John - Derbyshire's Unique Gem," in *Gems*, 11, 2, 1979, 13-19, 21-23, 9 photos(4 col).

2178. FORD, TREVOR D & SARJEANT, W A S The "stalactitic" barytes of Derbyshire. Ibid, 34, part 4, no 19, July 1964, p 371-86, Pls 39-40. Also in pale gray wrap, as above. JSL. By carefully researching the literature and old records, the authors eventually were able to rediscover the source of this "lost" ornamental, banded barite of attractive brown/yellow hues, near Arborlow, Derbyshire. They discuss its composition, and the nature and working of the material into ornamental or specimen pieces. Both plates show the barite in rough and polished forms. See also W A S Sarjeant, "Quest for a lost mineral," in *The Peak*, Hilary Term Number, 1964, 4 p.

2179. FORDE, C DARYLL On the use of greenstone(jadeite, callais, etc.) in the megalithic culture of Brittany. *J Roy Anthropol Inst*, London, 60, 1930, 211-34, 4 fig; also in printed wrap separate, 27.1 x 19 cm(10 3/4 x 7 1/2 in). JSL. Describes axes and other objects made from a variety of stones which in some cases are jadeite but in others are some kind of fine-grained greenish rock; callais, however, may be turquoise.

FORMINIERE, see SOCIÉTÉ INTERNATIONALE FORESTIÈRE ET MINIÈRE DU CONGO

FORNARO, CARLO DE The "Legend" booklets, published in New York City by the jewelry firm of Marcus & Co. and presented to customers. Twelve were issued altogether, all in similar format, and listed below by title, commencing with the first on diamond published in 1901. Centersewn with thin red cord, 19.6 x 13.5 cm(7 3/4 x 5 1/4 in), cut, heavy pale gray wrap, cover title, and with wrap overlapping text; printed at the Gilliss Press. JSL.

2180A. -----1901. Krishna's Gift | The | Legend of the Diamond | Illustrations And Text By | Carlo De Fornaro | Published By Marcus & Co. | Jewelers | 544 Fifth Avenue | New York 15, [1] p; LC 3-11154.

2180B. -----1901. Prince Tissa | The | Legend of the Ruby | ... 13, [3]p; LC 3-11151.

2180C. -----1901. The Tear Of Soma| The | Legend of the Pearl |... 13, [2], [1 blank] p; LC 3-11152.

2180D. -----1901. White Lotus | The | Legend of the Cat's Eye |... 17, [2], [1 blank]p.

2180E. -----1902. Amrita | The | Legend of the Sapphire |... 18, [1], [1 blank]p, LC 3-11155.

2180F. -----1902. Vanadeva | The a Legend of the Emerald |... [2 blank], 33, [1]p.

2180G. -----1902. Shiva, "The Destroyer" | The | Legend of the Moonstone |... [2 blank], 11, [1], [2 blank]p.

2180H. -----1902. Isvara's Ring | The | Legend of the Jade |... 15, [1] p.

2180I. -----1902. The Necklace of Untold Sighs | The | Legend of the Coral |... 13, [3]p.

2180J. -----1902. The Tears Of Kusa | The | Legend of the Topaz |... [2 blank], 13, [1] p.

2180K. -----1902. Uttara | The | Legend of the Turquoise |... 17, [2], [1 blank]p.

2180L. -----1902. Asneha | The | Legend of the Opal |... 25, [2], [1 blank]p.

The legends are supposed to be derived from Indian sources. Each pamphlet is illustrated with pen-and-ink sketches and chapter ornaments that are of considerable artistic merit. It is extremely difficult to find complete sets.

2181. FORRER, L The biographical dictionary of medallists, coin-, gem-, and seal-engravers, mint-masters, etc., ancient and modern with references to their work, 500 B C -A D 1900. London: Spink, 6 vol -, 1904-1916. Not seen. Reprinted in 8 vols, ca 1980, blue cloth, 24 x 17 cm.

2182. -----1906

Benedetto Pistrucci | Italian Medallist & Gem-Engraver | 1784-1855 | [oval cameo] | By | L.Forrer, F.R.N.S. | Member Of The Italian Numismatic Society | And Member Of The Circolo Numismatico Milanese | (Extract from the "Biographical Dictionary of Medallists, &c.") | London | Spink & Son Ltd. | 17 & 18 Piccadilly, London, W. | [rule] | 1906 | Price: 2/6 Nett.

8°: 40 p; 46 text fig. V pale blue glossy wrap, title on cover. Pale tan flyleaves. 25.3 x 16.6 cm(9 7/8 x 6 1/2 in). Uncut. JSL.

Pistrucci's most important work was accomplished in England, where he was primarily known for his medals and coins. The text is richly illustrated with examples shown in photographs. See also DNB for a long article on his life and works.

FORSIUS, SIGFRID ARONUS or ARONSEN(ca1550-1624)

Swed astronomer, scientist; b Helsinki; ord minister 1597; prof astron Upsala U 1608; Swed roy astronomer 1612; pastor Tammisaari, Finland 1620. *Biogr Univ*, 15, 278, which gives death in 1637.

2183. -----1643

Mineralographia,|Thet är/ | Mineralers/ | åthskillighe Jordeslags/ De= | tallers eller Malmars och Ed= | le Steenars Beskrifwelse. | Aff förnemlige Authoribus | sammanhämptat/ och medh | flijt disponerat | Vthi Tree Böker/ | M.Sigfrido Arono | Forsio. | Nu medh eghen bekostnadt uplagdt | och aff Trycket förfärdigat. | [orn] | J Stockholm/ hoos Ignattum | Meurer/Åhr 1643.

8°: [8], 160 (actually 190), [1], [1 blank]p; A^8, A-M^8. Woodcut ch orns. Contemp vellum. 15.6 x 9.6 cm(6 1/8 x 3 3/4 in). Cut. Ward & Carozzi 845; JSL;Agassiz II, 454.

Cont: tp; woodcut Swed Roy Mining Serv badge; dedic; minerals index; subjects index; 3 books; append; colophon; blank p.

One of the earliest printed books on mineralogy and the first published in Sweden. The data are rudimentary and appear to be largely taken from Arabic and Greek sources, with notes on nomenclature, descriptions of the minerals and other substances treated, and their uses in the arts and in medicine. The text, in three books, takes up earths, salts, vitriols, alums, sulfur, and the like, in the first book, followed by a relatively brief treatment of metals in the second. The third book is by far the largest, p 82 to 199, and concerns itself with all manner of stones but actually is on gemstones mostly. Among these are diamond, jasper and other cryptocrystalline quartzes, sapphire, hyacinth, emerald, amethyst, garnet, beryl, topaz, chrysolite, turquoise, etc, and including the usual(for this period) vaguely defined or even completely unidentifiable stones as "hexacontalithus" and "hexacolithus," among others, all of which are carry-overs from Middle Ages lapidaries in which many such unknowns were treated. There are also ornamental and other types of stones in this book as lapis lazuli, asbestos, and magnetite. Organic materials include pearl, bezoar, coral, amber and jet. Figured stones, or fossils, also find a place in this work. Authorities cited are Pliny, Scaliger, Cardan, Albertus Magnus (frequently), Galen, Arnoldus, Isidore of Seville, Avicenna, Dioscorides (frequently), Aristotle, Paracelsus, and others. Thorndike, *History of Magic*, 7, 151-2, mentions Forsius only in connection with his astrological work. Not in Ferguson. An excessively rare work.

2184. FORSTER, A Untersuchungen über die Färbung der Rauchquarze oder sog. Rauchtopase. *Berner Mitt*, Bern, no 761, 1871, 129-61, pl. JSL. Also in *Ann Phys u Chemie*, Leipzig, 143, 1871, 173-94. A remarkable find of smoky quartz crystals in the Swiss Alps in 1868 excited interest in establishing the cause of color in this variety of quartz. In this paper, Forster describes in minute detail his determinations of refractive indices, specific gravities, and heat treatment experiments (to remove color), and lastly his attempt to isolate from a large quantity of material the organic substance which he believed to be the cause of color. The plate shows a crystal cross-section in which coloration is unevenly distributed and due to irregular distribution of the organic coloring agent during crystallization.

2185. FORSTER, JAMES A Diamonds and their history. *J Microscopy and Nat Sci: The J of the Postal Microscopical Soc*, London, 3, 1884, 92-101, Pl 10; 170-75. Also sep: pale gray print wrap, cover title, 15 p, 21.5 x 13.7 cm(8 1/2 x 5 3/8 in).

BM(NH) Libr. Generalities on diamond: ancient knowledge, Pliny's mentions, the Koh-i-noor (the plate gives a crude sketch of same before its recutting), diamond in the Middle Ages and after, chemistry, crystallography, occurrences.

FORSTNER, WILLIAM, see AUBURY, LEWIS E

2186. FORT, G SEYMOUR

Alfred Beit | A Study Of The Man And His Work | By | G.Seymour Fort | C.B.E. | With A Foreword By | Lieut.-General The Right Hon. | J.C.Smuts, C.H., K.C. | With Illustrations | London | Ivor Nicholson & Watson | 44 Essex Street, W.C.2 | 1932

Tip-in on tp, a small slip reading "Errata | The Publishers greatly regret that through | a misconception they have described Alfred | Beit erroneously, as Sir Alfred Beit in | the captions underneath the illustrations"

8°: 221,[3 blank]p; glossy front portr pl tip-in; 3 photos on 3 glossy f tip-ins. Brown cloth, blind frame on cover with monogram"AB" in gold; gilt spine title. 21.5 x 13.9 cm(8 1/2 x 5 1/2 in). Cut. Te stained dk green. All paper pale tan. JSL.

Cont: 1/2tp; pl; tp; publ data; pref; fwd; tab cont; ill list; chronology; 9 chs; 6 appends; 3 blank p.

Beit's character and accomplishments are reconstructed from records of his activities, pronouncements, and his will. Ch 3, p 68-91, is on Kimberley and contains interesting material on diamond mining and commerce because of its description of Beit's early career in this area. Tbe reaction of Beit and DeBeers to the announcement of probable success in diamond synthesis appears on p 185-6. An uncommon book.

2187. FORTEY, RICHARD

Rocks And Minerals | [col photo] | By Richard Fortey | [logo] [London: Octopus Books Limited, 1980]

8°: 64 p, 69 col text photos. Col photo glossy paper wrap; col photo endp. 26 x 19.4 cm(10 1/4 x 7 5/8 in). Cut. ISBN 0 7064 1124 2. JSL.

Cont: tp; tab cont; introd; text; index & publ data.

Elementary treatment, attractively illustrated, minimum of text, the latter containing misstatements and errors suggesting the author is not expert in the subjects addressed in this book. Some photographs, though undeniably handsome, have no relation to the text. Includes considerable material on gemstones. Specimens depicted not identified as to source; no references, no photo credits.

2188. FORTHUBER, WALTER(1947-)

Walter Forthuber | Diamant | die harteste Währung der Welt | 109 Abbildungen | Verlag Atelier Oehri, Vaduz [1978]

8°: 131, [1 blank]p; 109 ill (photos, line drawings, some part tinted). Dk blue mottled plasticized paper over bds; silver cover & spine titles. Blue dj, title & drawing on front. 23.8 x 16.8 cm(9 3/8 x 6 5/8 in). Cut. DM 48.- / SFr.-43. ISBN 3-85832-002-1. JSL.

Cont: 1/2tp; tp; publ data; tab cont; fwd; 6 chs; concl; ill list; pic credits; biblio(p 127, 8 entries); author biogr; advert.

Investing in cut diamonds: the diamond itself, quality features, imitations & falsifications, the trade, pricing structures, capital investment in diamonds, selection of stones, advantageous purchasing, and objections to diamonds as investments. Optimistic treatment but as events only a few years later proved, not based on hard business facts. Rev M O'Donoghue, *J Gemm*, 20, 2, 1986, 130.

FORTNUM, CHARLES DRURY EDWARD(1820-1899)

Engl art connoisseur, benefactor of Oxford U; rancher & miner in Australia; collector, critic, etc in England; author various art works. Extended biogr in DNB.

2189. -----1877 I.-Notes on some of the antique and renaissance gems and jewels in Her Majesty's collection at Windsor Castle. *Archaeologia: Or, Misc Tracts Relating to Antiquity*, London, 45, 1877, 1-28, 4 photo pls, tissues; 4 text fig. JSL. Detailed descriptions of selected engraved gems with sizes, materials, sources, and comments; excellent collotype plates.

2190. -----1883 The diamond signet of Henrietta Maria, Queen of Charles I. Postscript. King Charles's diamond signet. Ibid, 47, 1883, 393-408. An important detailed history of these two engraved diamonds; mentions other specimens of engraved diamonds. Not seen.

2191. FORTUNE [MAGAZINE] Diamonds. *Fortune*, New York, 11, 5, May 1935, 66-74, 124-139, passim, 19 photos, 1 col ill. Also. ibid. 30,000 guardians. 11, 6, Jun 1935, 96-100, 102-107, passim, 21 ill, some col. Taken together both articles provide a concise, accurate survey of diamond and its industry and trade from earliest times to the present; most emphasis on South African mines and the European cutting industry and trade. Excellent illustrations.

FOSHAG, WILLIAM FREDERICK(1894-1956)

Amer mineralogist, mus curator; b Sag Hbr, New York; AB chem U Calif 1919; PhD 1923; to US Nat Mus 1910, cur minerals from 1929; Head Curator 1948; during tenure acquired Roebling and Canfield mineral/gem collections; acquired G F Kunz gemological library for US Geol Survey; publ many papers on mineralogical subjects; strong interest in Meso-American jades and in gems & jewels. Obit W T Schaller, *Amer Min*, 42, 1957, 249-55.

2192. -----1950 Exploring the world of gems. *Nat Geogr*, 93, 6, Dec 1950, 779- 810, 10 b&w and 24 col ill. Beautifully illustrated popular article on many aspects of gems: lore, cutting, diamonds, other gemstones, and with photos of the Hope and Tiffany diamonds and the Warner quartz sphere, Miseroni emerald unguent jar, and other famous gems.

2193. -----1955 Chalchihuitl - a study in jade. *Amer Min*, 40, 11/12, 1955, 1062- 70. Studies mineralogy of jadeite, diopside-jadeite, chloromelanite of Meso-America, with remarks on nomenclature, chemical analyses, descriptions of varieties, reports on recent find of jadeite in Motagua River valley, Guatemala. JSL. *Min Abstr* 14, 1, 1959, 40.

2194. -----1957 Mineralogical studies on Guatemalan jade. *Smithsonian Miscellaneous Collections*, Volume 135, Number 5, 1957. Separate: centerstapled: [2], 60, [1]p; 8 photos on glossy doubleleaf tip-in at end of text; 2 fig(map); 4 tabs. Pale brown print wrap. 24.5 x 16.2 cm(3 5/8 x 6 1/2 in). Uncut. LC 57-61674. JSL.

With his previous paper, Foshag provides the first substantial account of the jades of Guatemala; it is remarkable for the richness of detail and the incorporation of new data accumulated

from the laboratory work of the author. Treats the history and uses of jade in America,nomenclatural problems & a long list of older authors mentioning the jade of the Americas, geological occurrence and serpentine belts in Guatemala in which future finds of jadeite may be made, chemical, optical, and physical properties, much on jade types, jades characteristic of certain archeological sites, and an excellent section on the native methods of working jadeite and similar stones. Scarcely any useful aspect of the jadeite problem in relation to its occurrence in Central America is neglected. Dr Foshag, long a student of Mexican and Central American cultures, and a frequent visitor to them, was eminently suited to write this monograph.

2195. -----1984 Reprint, new preface. Same title. Cementb: [4], 60 p; 2 text fig; + [4] glossy f bearing pls tp, 8 photos, and one f blank. Pale gray printed wrap. 22.8 x 15.2 cm(9 x 6 in). Cut. Free. LC 83-051619. JSL. The new preface, by John Sampson White, Curator of Minerals in the National Museum of Natural History, Washington, DC, remarks upon the petrological value of Foshag's paper and its future importance in explaining genetic problems in metamorphic rocks containing jadeite and also for tracing trade routes to sources of the raw jadeite as facilitated by Foshag's careful characterizations of various specimens examined.

FOSHAG, W F, see MERRILL, G P, 1929

2196. FOSSING, POUL(1902-)

The Thorvaldsen Museum | Catalogue Of | The Antique Engraved | Gems And Cameos | By | Poul Fossing M.A. | Assistant Keeper Of The National Museum, Copenhagen | [engrav gem photo] | Copenhagen MCMXXIX | [double-rule] | Issued By The Thorvaldsen Museum | Publishers: G.E.C.Gad · Copenhagen | Humphrey Milford, Oxford University Press · London [1929]

4°: 301, [3 blank]p, (p [1-2] blank) + 25 pls, each with glazed paper protective sheets bound-in at end of text (2009 gems in photos). Brownish- tan charcoal-type paper over bds, pale gray spine label. 30.8 x 22.8 cm (12 1/8 x 8 7/8 in). Uncut. Fe & be untrimmed. LC 30-33938. JSL.

Cont: blank f; 1/2tp; tp; publ data; tab cont; abbrev & refs(p [9-10], 20 entries); introd; catalog in 2 parts; append of misc entries; indexes of subjects, materials; concordance & erratum; 3 blank p; pls.

In every way an excellent attractive catalog with splendid photographic plates of very many casts taken from the gems and shown in actual size. The introduction describes the formation of the collection and its acquisition by the museum as well as a description of the collection generally, with added remarks on on the holdings in terms of variety and periods. The first part of the catalog lists and describes intaglios, while the second part is on cameos; the arrangement in both is chronological according to culture. Descriptions are detailed: subjects, materials, dimensions, similar gems in other collections or where published in older literature. Cylinder seals, gems set in rings, and pastes are included. The collection was formed by Bertel Thorvaldsen(1768-1844), the famous Danish sculptor. He resided for many years in Rome and there acquired numerous antiquities, including the engraved gems, and which objects, in toto, were the nucleus of the museum established in Copenhagen and named in his honor. As to his expertise, Fossing says about Thorvaldsen that he "was artist enough to be able to decide with great certainty whether a gem was of antique or modern workmanship" and therefore his collection "contains a surprisingly small number of gems which may now be declared to be undoubtedly modern"(p 16-7). The present catalog was long-awaited and was the first published since 1847 when Ludvig Müller's large catalog of the entire museum collection appeared with a special volume devoted to the engraved gems (not seen). Scarce.

2197. FOTHERGILL, JOHN (1712-1780) An extract from the essay on the origin of amber. By John Fothergill, M.D. N° 472, p 21. *The Phil Trans Roy Soc of London*, Abridged, vol 9, London, 1809, p 9-12. Poses three possible origins for amber but convincingly argues that only the evidence for plant origin is valid. A Biogr of Fothergill is footnoted on p 9.

FOUGEROUX DE BONDAROY, AUGUSTE DENIS (1732-1789)

Savant, archeologist, historian, nat scientist; b Paris; mbr Acad Sci; among other subjects wrote on quarrying and building stones. Pogg 1, 782.

2198. -----1770 Abhandlung von versteinerten Hölzer. Aus den Mémoires de l'Acad. der Paris, 1759. *Mineralogische Belustigungen, zum Behuf der Chymie und Naturgeschichte des Mineralreichs*, 5.Theil, Leipzig, bey Joh.Friedrich Heineck und Faber, 1770, No.20, p 422-51. JSL. A short treatise on petrified wood, including silicified wood capable of being polished; with occurrences, including Martinique; speculations as to formation.

2199. FOURIE, G P Die diamantvoorkomste in die omgewing van Svartruggens, Transvaal. With a summary in English entitled: The diamond occurrences near Swartruggens, Transvaal. *Union of South Africa Geol Survey Bull* 26, Pretoria, 1958, iv, 16 p, 5 fig, fold map. Printed wrap. 24.4 x 15.5 cm(9 5/8 x 6 1/8 in). Cut. 4s 9d. JSL. Describes kimberlite bodies and alluvial deposits containing diamonds, with notes on the mineralogy and petrography of the kimberlite and the production and marketing of diamonds. GS 59-145.

2200. FOURIE, M Knave of diamonds. Ilfracombe, Devon: Arthur H.Stockwell, Ltd, [1961], 7/6 s. On John Williamson, discoverer and miner of the Mwadui diamond pine, Tanganyika. Not seen. Obit of J W, *The Gemm*, 27, 318, 1958, p 19; see also HEIDGEN, H.

2201. FOURLAS, ATHANASIOS A

Athanasios A.Fourlas | Der Ring In Der Antike | Und Im Christentum | Der Ring als Herrschaftssymbol und Würdezeichen | Verlag Regensberg Münster [1971].

"Forschungen zur Volkskunde...herausgegeben von Bernhard Kötting und Alois Schröer, Heft 45."

8°: 148 p + [18] glossy f bearing 38 photos, bound-in. Green paper wrap, cover title, spine title. 22.9 x 15 cm(9 x 5 7/8 in). Cut. JSL.

Cont: 1/2tp; series data; tp; publ data; dedic; quotes; tab cont; fwd; introd; text in 2 parts; 4 part append; ill tp; ill.

On finger rings in antiquity and in the Christian era. The introduction is a general survey of the history of the ring, the ring as an art object, folk lore of rings, finds, exhibition &

museum catalogs, and symbolism. The two text parts treat the ring in antiquity and in the Christian period, and as with all parts of this work, which is an expanded version of the author's doctoral dissertation, it is extensively footnoted and provides many valuable references to articles and books. The appendix contains interesting material on rings in religious rites, as talismans, as magical or protective devices, and even rings to which curative powers are attributed. Here is also the author's large bibliography, p 127-47, ca 400 entries, as such forming an invaluable guide to ring literature in all ages.

FOWKE, GERARD(1855-1933)

Amer archeol; specializing in study Amer Indian artifacts and remains in Eastern USA; 60 publs on archeol. DAB, 21, 315-6.

2202. -----1902

Archaeological | History Of Ohio | The Mound Builders | And Later Indians | By Gerard Fowke | [rule] | Published By The Ohio State Archaeological | And Historical Society | [rule] | Columbus, Ohio | Press of Fred.J.Heer [1902]

8°: xvi, 760 p; fold front pl tip-in; 303 fig. Brown cloth, gold lett, rules & leaf on spine. 22.5 x 15 cm (8 7/8 x 5 7/8 in). Cut. JSL.

Cont: tp; pl; not,e; pref; tab cont; ill list; 17 chs; append-(biblio notes, p 729-48, ca 400 entries); index; blank flyleaves supplied.

The lapidary arts of American Indians are described and richly illustrated in chs 14-16, wherein sources of material are given, including the famous Flint Ridge deposits of colorful chalcedonies, along with how the stone was worked into useful and ornamental objects.

2203. FOX, CYRIL S Notes on Indian precious stones. *J Indian Industry and Labour*, 1, 3, 1908, 304-26; also in *Muslim Review*, Lucknow, 1, 2, 1926, p 1-29. The second reference gives "Syril" as the spelling. Not seen.

2204. FRADERA, TOMÁS

Manual | Del | Diamantista, | Ó | Tratado De Las Piedras Preciosas: | De Los | Metales, Su Fabricacion, Aligacion, Esmalte, | Soldaduras Y Demas Concerniente | Á Este Ramo. | Adornado com láminas que representan las | piedras preciosas al natural. | Por | D.Tomás Fradera. | [orn] | Barcelona: | Imprenta De D.Manuel Saurí, Calle | Ancha, esquina a la del Regomí. | [rule] | 1846.

"Colec. de Manuales de cienc. y art. del editor D.José Cuesta," according to Maffei & Figueroa, no 891.

8°: 161, [1 blank], [1 ill p], [1 blank], [6]p; 2 fold pls bound-in; 1 text ill; ch orns. 14.8 x 9.8 cm(5 7/8 x 3 7/8 in). Cropped. JSL.

Cont: 1/2tp; tp; ownership statement; introd; text in 14 bks; blank p; fold pls; text ill; blank p; tab cont.

An early factual work on gemstones and precious metals, with related jewelry-making processes, meant primarily for the self-education of members of the profession rather than the general public. The first eight books include one on the properties and other scientific aspects of gemstones, followed by books on diamond, colored stones, quartz family gemstones, opaque stones, jaspers (and lapis lazuli), "combustible" gemstones (jet and amber), and pearl & coral. The greatest space is accorded the diamond with the two folding plates depicting rose and brilliant cuts in actual size, with weights, probably copied from similar illustrations in Jeffries *Treatise*, which see. The single text figure depicts crudely and inaccurately five famous diamonds: Mogul, Star of the East, Sancy, Regent, and "Diamante Ruso," or the Orlov, much distorted. This appears to be the first modern gemological treatise for practical workers published in Spain. It is rare.

FRAMES, M E, see DRAPER, D, 1898

2205. FRAMINET, CLAUDE

Le Diamant | Et Ses Imitations | Par | Claude Framinet | Inventeur du Diamant Américain | Préface | Par | Alexandre Dumas | [rule] | En Vente | Chez M.J.Madre, Libraire | 20, Rue du Croissant, 20 4 Paris [1868]

8°: [3], [1 blank], XXXI, [1 blank], 42 p. Pale green wrap, title in red within ruled frames on cover; printer name back cover. 21 x 13 cm(8 1/4 x 5 1/8 in). Cut. USGS Kunz Coll, GS 34-542; BM(NH).

Cont: 1/2tp; tp; pref; text.

A strange work which seems to have for its purpose the publicizing of the author's imitation diamonds("Diamants Américains")which were made from a glass paste using rock crystal from California as an ingredient. The long preface by celebrated novelist Alexandre Dumas(1803-1870), of 31(!) pages, rambles through many topics but eventually devotes considerable space to some famous diamonds and their histories, several cases of famous diamond thefts, and the Marie Antoinette diamond necklace affair, about which Dumas had written an entire book. The text itself deals with early history of diamond, sumptuary laws in connection with diamond jewelry, occurrence of diamonds, a list of the diamond mines in India, qualities of diamonds, development of the brilliant cut, famous diamonds, and other topics. Other gemstones receive brief descriptions. The text ends with a description of strass-making and provides several formulas for glasses.

FRANCE. CROWN JEWELS, see CROWN JEWELS, FRANCE

2206. FRANCHEVILLE Sur l'origine de l'ambre jaune de Prusse. *Hamburgisches Magazin*, 8, 1755, 474-506. Not seen; from Bock, 1981, p 170.

2207. FRANCHI, S Ueber das Vorhandsein von Jadeitgesteinen in den Westalpen und in Ligurien. *Bollettino Reale Comitato Geologico d'Italia*, Firenze, 31, 1900, 119-8. Confirms jadeite in Neolithic sites from petrographic-chemical studies on 60 specimens; most proved to be jadeites, chloromelanites, or eclogites. Ref *Zs Krist*, 35, 1902, 521-2. Not seen.

2208. FRANCIS, J G

Beach Rambles | In Search Of | Seaside Pebbles | And | Crystals. | With Some Observations On The Origin Of The | Diamond And Other Precious Stones. | By | J.G.Francis. | [rule] | London: | Routledge, Warne, And Routledge, | Farringdon Street; | And 56, Walker Street, New York. | 1859.

8°: iv, 186, [2 advert]p; front col litho pl with thin paper(not tissue) guard and a 1/2 title, entirely in color, with circular seaside scene, all 3 leaves inserted ahead of title + 7 bound-in col litho pls, the latter interleaved with thin blank paper. Neither

the pls nor interleaves includ in pag. Dk green cloth, elaborate blind stamping (overall floral frame) on both covers, enclosing a gold fossil on front cover. Similar stamping & gold lett on spine. 16.2 x 12.7 cm(6 3/8 x 5 in). Uncut. JSL.

Cont: col pl; blank interleaf; col 1/2 tp; tp; introd; erratum slip inserted; 10 chs; pls & pl explan; gloss; geol strata; gloss; mineral & chemical key; index; advert.

A charming, informative book in which the author's love of nature shows in every line. Many of the pebbles found on England's beaches are chalcedony replacements of fossils but may also be agates or other varieties of quartz. The author speaks of his visit to a seaside lapidary shop where visitors could take their pebbles to have them cut open and polished. The lapidary's apparatus is accurately described as well as the steps taken in its use but he also mentions the common practise of substituting cheap foreign gem material for native stones when this would result in a more pleasing finished product! Ch 7 records Francis' speculations on the formation of diamond and the replacement of fossils by silica in the specimens found on the beach as well as the causes of color and transparency in gemstones. This is the first book that devotes itself to the collecting and polishing of beach pebbles and till quite recently it remained the only one. The color plates, though crudely done, are not devoid of attractiveness and perhaps may have been of help to beginners in identifying their finds once they had them cut open and polished. Scarce. Rev A C Ramsay, *Saturday Review*, London, 12 Nov, 1859, 530, 31, 558-60.

Reprinted with same date; nearly identical, but blank interleaves now are tissues; covers stamped in different pattern, ditto for spine; gold seems cheapened and appears coppery; pale yellow endp.

2209. -----1861, reprint called "new edit." Identical text, but now running uninterrupted to end, followed by [2] advert pages; col pls lack tissues; front pl lacks guard. So far as I can discover, this version was issued without the colored half-title leaf; instead, it appears that the circular vignette has now been cut out and mounted in the center of the front cover in lieu of the former gilt fossil stamping. Furthermore, the cloth is now bright orange, smooth-finish, with black lett in double-rule frame, plus "Price Two Shillings And Sixpence" at top and "A New Edition" below the cut-out; advert back cover. Pale yellow endp. JSL.

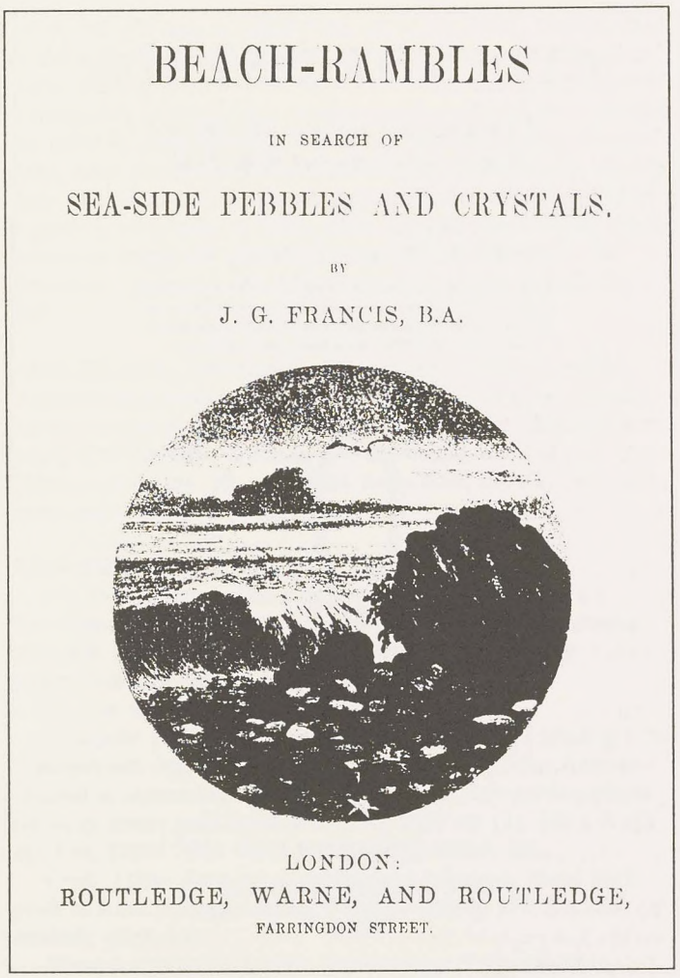
FRANCIS, W, see BECKMANN, J, 1846

2210. FRANCO, RUI RIBEIRO Pequeño glossário gemológico. *Gemologia*, São Paulo, 4, 15, 1959, 17-38. Contains 168 species & var names, with properties, chem, etc. *Min Abstr*, 14, 7, 1960, p 488.

2211. FRANCO, RUI RIBEIRO & SOUZA CAMPOS, JOÃO ERNESTO DE

Rui Ribeiro Franco | E | J.E.De Souza Campos | as pedras preciosas | noções fundamentais | [vignette] | coleção buriti | 4 [title in red & black; São Paulo, Brazil: São Paulo Editora S.A., 1965]

8°: [14], 155, [1 blank], [1], [1 blank], [1], [3 blank]p; front photo, 141 small drawings in groups in text. Green & gray paper wrap, col gem panel on cover with title. 17.9 x 12.3 cm(7 x 4 7/8 in). Cut. JSL.


BEACH-RAMBLES

IN SEARCH OF

SEA-SIDE PEBBLES AND CRYSTALS.

BY

J. G. FRANCIS, B.A.

LONDON:
ROUTLEDGE, WARNE, AND ROUTLEDGE,
FARRINGDON STREET.

2208. Full-colored lithographed titlepage in addition to a printed titlepage of Francis' charming book on collecting agates and other gemstone pebbles on England's beaches

Cont: collaborators; vitas; photo; tp; publ data; text tp; tab cont; pref; introd; 10 chs; biblio(p 127-39, 14 bks, ca 60 magazine arts); append; localities in Brazil; index(actually a tab cont); note on front photo; blank p; print data; 3 blank p.

The only recent comprehensive gemological text written in Brazil since Gonsalves *As Pedras Preciosas*, 1949. Defines factors that make gemstones valued, gem crystals, typical crystal forms, classification, inclusions, synthetics & distinction, falsifications & imitations, induced color changes, identification methods and application to specific gemstones, lapidary work, pearls, other gemstones and organic gemstones. Most of the entries in the bibliography are from articles in the Brazilian journal *Gemologia*. The appendix consists of tables, which with some changes appear to be largely based on Liddicoat's tables in his *Handbook of Gem Identification*, 1953. There is a list of Brazilian gemstones and the localities where they occur.

2212. FRANK, F C, PUTTICK, K E & WILKS, E M Etch pits and trigons on diamond. I. *Phil Mag*, London, ser 8, vol 3, 1958, 1262-72; II.(less Wilks), ibid, 1273-9. Not seen: *Min Abstr* 14, 5, 1960, 337.

CYLINDER SEALS

A Documentary Essay on the Art and Religion of the Ancient Near East

by

H. FRANKFORT, M.A., PH.D.

Research Professor of Oriental Archaeology in the Oriental Institute, the University of Chicago; Extraordinary Professor in the History and Archaeology of the Ancient Near East in the University of Amsterdam; Correspondent of the Royal Netherlands Academy of Sciences



LONDON
MACMILLAN AND CO.
1939

2220. A major contribution to the study of ancient engraved cylinder seals, many manufactured from gemstones

2213. FRANK, JOAN

Birthstones | of the month | Researched and prepared by | Joan Frank | In collaboration with | The Jewellery Information Centre [London(?): Colourmaster International, 1973]

Centerstapled: 32 p, 12 col photos; pink-tinted doublep sketch map. Glossy wrap, cover black with col photos & white lett; back cover plain white. 18.4 x 14.1 cm(7 1/4 x 5 1/2 in). Cut. ISBN 0 85933 111 3. JSL.

Cont: tp; publ data; biogr sketch; poem; fwd; text; map; index.

Brief mineralogical identification, color, sources, lore, uses in jewelry, and notable persons with birthdays for the stones concerned: garnet, amethyst, aquamarine, diamond, emerald, pearl, ruby, peridot, sapphire, opal, topaz and turquoise. Excellent fullp photos of jewels from Garrard's of London and rough specimens, but the latter, though beautifully pictured, are poor specimens. Better than average work.

2214. -----1976

All Gemstones | Are Precious | An introduction to | the world of jewels | by Joan Frank | Jewellery Advisory Centre | Nodel and Allied Publications | Argus Books Ltd | Station Rd, Kings Langley | Herts, England [1976]

8°: 48 p; 4 col photos(first two supplied with paste-on caption labels attached to facing page); 4 b&w photos. Col paper over bds. 18.6 x 12.4 cm (7 3/8 x 4 7/8 in). Cut. £1.95 in UK only. ISBN 0 85242 477 9. JSL.

Cont: tp; publ data & ackn; introd; text.

Very elementary popular work intended to arouse interest in gemstones. It is completely devoid of any numerical scientific data but gives nomenclature, history, curious lore, and other information that stresses the human aspects of gemstones and the fascination they have held for mankind throughout history. Notes on diamond and other major gemstones, birthstones, organic gemstones, permanency and enduring value of gems, and a brief glossary of rarer gemstones. The color plates are muted in tone and show rough & cut gemstones while the other photographs show young ladies wearing jewelry.

2215. -----1979

The Beauty of | Jewellery | by Joan Frank | Produced by | Ted Smart & David Gibbon | Photography by Neil Sutherland | Research by Hanni Edmonds | First published in Great Britain 1979 by Colour Library International Ltd. | © Colour Library International Ltd. 1979 | Printed and bound by Rieusset, Barcelona, Spain | All rights reserved. | ISBN 0 904681 74 2 | Colour Library International [New Malden, Surrey]

4°: [2], 93, [1]p; 174 col photos; 2 line drawings. Dk reddish-brown cloth-type paper over bds; gilt title on cover & spine; dk red-brown endp. Black dj, col photos; resume. vita, author portr. 31.9 x 23 cm(12 5/8 x 9 in). £5.95. JSL.

Cont: 1/2tp (with fullp col photos on both sides); tp; tab cont; introd; 8 chs; last p is fullp col photo.

Most space is taken up by excellent color photographs of jewelry and some loose gems, with the text being more an appreciation of gems and jewels rather than any substantial fund of information. There are brief remarks on the history of jewelry, traditional gemstones, nomenclature, some lore, lesser gemstones, organic gemstones, the jeweler's arts, birthstones, timepieces set with gems, jewels in the Victoria & Albert Museum, London, and design trends. There is no index nor list of references. Despite its title the work is mostly a popular essay on major and minor gemstones with the illustrations largely serving to show their use in jewelry.

2216. FRANK, J C History of amber - an instructive and interesting pamphlet. Glasgow, 1888, 16 p. wrap. Not seen; from P M Pollak, Bookseller, Cat 4, 1975, "An advertising leaflet put out by Frank during the course of the International Exhibition in Glasgow, 1888. Frank had Exhibit 1372, Court 25, where he demonstrated his stock of amber jewellery, pipestems, etc., and the manner in which amber was worked."

2217. FRANK, L Über Bestimmung, Bewertung und Fälschung von Edelsteinen. *Jb d Handelsakademie Olnütz*, 1899, p 17-46. On the identification, valuation and falsification of gemstones, with some related remarks on the discovery of diamond faceting, gem properties, means of identification, systematic valuation of gems, falsifications & imitations, trade in same, etc. An early attempt to provide guidelines for buyers and sellers of gems.

2218. FRANKEL, J J Uvarovite garnet and South African jade(hydrogrossular) from the Bushveld complex, Transvaal. *Amer Min*, 44, 5/6, 1959, 565-91, 8 fig, 2 pls, 7 tab. JSL. Occurrence and properties of the well-known ornamental stone "South African jade," or hydrogrossular in fine-grained massive form.

2219. FRANKFORT, HENRI Gods and myths on Sargonid seals. *Iraq*, 1, 1934, 2-29, illustrated. Not seen.

2220. -----1939

Cylinder Seals | A Documentary Essay on the Art and | Religion of the Ancient Near East | by | H.Frankfort, M.A., PH.D. | Research Professor of Oriental Archaeology in the Oriental Institute, | the University of Chicago; Extraordinary Professor in the History and | Archaeology of the Ancient Near East in the University of Amsterdam; | Correspondent of the Royal Netherlands Academy of Sciences | [vignette] | London | Macmillan And Co. | 1939

8°: xlvii, [1 blank], 328 p + fold chrono index + pls I-XLVII printed recto on glossy bound-in f; 116 text fig. Dk blue cloth, gilt spine lett; teg; pale tan-yellow endp. 24.8 x 13.7 cm(9 3/4 x 7 3/8 in). Cut. LC 39-12714.

Cont: 1/2tp; tp; print data; dedic; tab cont: pref; ackn; abbrev list (biblio p xx-xxi); plates list; text fig list; prelims; text in 6 sect; epilog; gen index; fold chrono index; pls.

Preliminaries discuss the origin and uses of seals, their materials, lapidary treatment, shapes, inscriptions, etc. Periods range from prehistoric to ca 1200 BC. Many hundreds of individual photographs of good quality on the plates. Reprinted 1965, 427 p; not seen. ISBN 0-576-13456-5; $74.50.

2221. -----1955

The University Of Chicago | Oriental Institute Publications | Volume LXXII | Stratified Cylinder Seals | From The Diyala Region | By H.Frankfort | With A Chapter By Thorkild Jacobsen | [logo] | The University Of Chicago Press · Chicago · Illinois [1955]

8°: [2 blank], xi, [1 blank], 78 p + [1]f + 96 pls, bound-in, with lett verso, photos recto (except pl 92, verso blank, pls 93-5, folding maps, versos blanks, pl 96 map with verso blank) + fold tab; 6 text fig. Dk brown spine cloth, gilt, logo on spine; covers in dull brownish-orange cloth. 29.8 x 23.2 cm(11 3/4 x 9 1/8 in). Cut. JSL.

Cont: blank f; ser tp; press note; tp; publ & series titles data; pref; tab cont; ill lists; abbrev list(biblio p xi, 17 entries); 5 chs; catalog of cylinder seals; catalog; index of field numbers; gen index; pl tp; pls; fold tab.

Presents his findings based on excavations carried out layer-by-layer and demonstrating correlations among finds, ie, similarities in types of seals, designs, etc, in sites in Mesopotamia. The so-called "stratification" is discussed in the first chapter while the stylistic developments are traced in the second, and other chapters taking up the subjects engraved upon the seals, inscriptions, etc. The plates depict numerous seals and the impressions made from them as well as providing several contoured site maps.

2222. FRANKLIN, JAMES On the diamond mines of Panna in Bundelkhand. *Asiatick Researches, or Trans of the Soc Instituted in Bengal for Enquiring into the History and Antiquities, the Arts, Sciences, and Literature of Asia*, Calcutta, 18, part 1, 1829, 101-22; also in *Edinb J Sci*, ns, vol 5, 1831, 150-66. One of the earliest useful descriptions of classical diamond mines in India: history, (said to have been discovered during the reign of Aurangzeb), geology, type deposits(surface alluvial, deep alluvial, the latter in conglomerate), extent of diamond-bearing formations, mine descriptions, methods of mining & recovery, descriptions of crystals and their qualities(with native terms applied to 6 grades), economics & trade, table of barometer heights, speculations on origin but discounting the popular story that the diamonds "grow" in situ. Most important paper. Agassiz II, 469.

2223. FRANZ, RUDOLF De lapidum duritate eamque metiendi nova methodo... Publice defendet Rudolphus Franz... adversariorum parte suscipient Hub.Scheck... Ern. Brunswicker... [und] Car.Schmidt... Bonnae, F.P.Leuchneri, 1850. 2 p, f., 22, [2]pp, includ tabs. 20 cm. USGS Kunz Coll, GS 33--330. Not seen, stated to be on precious stones.

2224. FRANTSESSON, E V

E.V.Frantsesson | The Petrolozy Of The Kimberlites | Translated by D.A.Brown | Professor of Geology | Australian National University | [logo] | Department Of Geology | Australian National University | Canberra, A.Ct. | 1970

Russian title on reverse of half-title.

Cementb: p [1-6] + [6] p insert + p 7-195, [1 blank]p. The principal text supplied with the page numbers of the Russian original in square brackets. 69 fig, 39 tabs. Thin-section photo on wrap cover; gold Spine title. 29 x 20.7 cm (11 3/8 x 8 1/3 in). Cut. ISBN 7081 0082 1; UDC 552.323.6. JSL.

Cont: 1/2tp; Russ tp; tp; publ data; tab cont; transl pref; prefs in Russ & Engl; introd; 8 sects; biblio(p 179-94, 237 entries); print data.

Siberian kimberlite bodies: terminology & classification, petrography, chemistry & mineralogy, phases & facies; formation & source, and kimberlites compared to other igneous rocks. Much information on diamond throughout, mostly in mineralogy section, eg, crystals & habits, surface features, inclusions, and other features with much of it being remarkable for the kind of detailed information on diamond crystals which is normally absent in other works on diamond. The bibliography is large, important, and contains virtually all significant works on kimberlites and diamonds.

2225. FRAQUET, HELEN R Amber from the Dominican Republic. *J Gemm*, 18, 4, 1982, 321-33, sketch map, 2 col photos. JSL. Very informative & useful article on this little-known true amber being mined in commercial quantities: early knowledge of same, localities, comparisons with other ambers, mining, types, properties, inclusions, and manufacture into various articles.

2225A. -----1987

Butterworths Gem Books | Amber | Helen Fraquet | Butterworths | London Boston Durban Singapore Sydney Toronto Wellington [1987]

16°: xii, 176, [4 blank]p; 41 col photos on 8 pls(on 4 glossy bound-in f betw p 52-3); 84 fig(photos, maps, drawings, diagrams); geological age chart & IR spectra chart. White plasticized paper over bds, pale reddish-brown photo of amber carving on cover with amber-brown & pale gray lett, orns; similar

spine. Advert, resume, etc on back cover. 23.4 x 16.5 cm (9 3/16 x 6 1/2 in). Cut. USA $29.95. LC 87-811; ISBN 0-408-03080-1.

Cont: 1/2tp; other bks in series; tp; publ data; pref; ackn; dedic; tab cont; 17 chs; 3 appends; index; 2 blank f.

The author studied amber for many years and traveled extensively in her searches for information and viewing of museum collections and amber deposits. After the customary "profile" or abstract of the properties & characteristics of amber, the first four chs are devoted to the history, uses, objects, etc, made from amber from the Paleolithic to the recent, with by far most space devoted to European cultures. Next appear a brief chapter on the medicinal applications of amber and associated lore, adulterations of amber during the 19th-20th centuries, plastics, amber from Asia, Sicily, Romania, Dominican Republic, Mexico, and then chs on resins confused with amber, tests, laboratory techniques for identification, resins and botanical sources, inclusions, and appendices comprising the geologic ages chart, amber in the USA, and a comparative IR trace chart for numerous types of amber. References appear after each chapter but unfortunately are unpaginated for the most part and studded with a considerable number of mistakes. Contains an enormous amount of information, some not available in any other source.

2226. FRASER, GEORGE

A | Catalogue | Of The | Scarabs | Belonging To | George Fraser. | [orn rule] | London: | Bernard Quaritch, 15, Piccadilly. | [rule] | 1900.

8°: viii, 62, [1], [1 blank]p; tip-in photo front pl; 16 glossy pls (line drawings) bound-in at end; 474 text line drawings. Pale green ribbed cloth, black title & cartouche on cover; black lett spine. 21.6 x 13.9 cm (8 1/2 x 5 1/2 in). Cut. JSL.

Cont: pl; tp; print data; pref; introd; catalog; append; index; errata; blank p; pls.

The introduction, signed "Strange Hathor, Cairo, 1900," notes the usefulness of scarabs in dating excavations and provides a general history of the scarab and its uses in ancient Egypt along with a short summary of styles. This is followed by a descriptive catalog of 474 specimens in the collection, giving number, legend, name, or other identification, and body material where known (gemstones are used in some examples). The plates largely reproduce the small sketches in the text that accompany catalog entries.

2227. -----1979, New York reprint

A | Catalogue |...| George Fraser. | [rule] | New York | Attic Books, Ltd. | 1979.

Cementb: pagination same, + [2]p auction sale estimated prices + [6] blank p. Bright green wrap, col covers. 21.5 x 13.6 cm(8 3/8 x 5 3/8 in). Cut. LC 79-S3551; ISBN 0-915-018-19-5. JSL.

The estimated prices are from "Kunst-Auktion 20, Stuttgarter Kunstkabinett - Samstag, 27 November 1954," with prices in DM, and "George Fraser's Collection was auctioned off at this time."

2228. FRATTEGIANO, GIOVANNI MARIA BONARDO

La | Minera | Del Mondo, | Dell' Illvstre S.Gio.Maria | Bonardo Frattegiano | Conte, e Caualiero; | Nella qual si tratta delle cose più secrete, e più rare de' | corpi semplici nel mondo elementare, e de' corpi | composti, inanimati, & animati d'anima, | vegetatiua, sensitua, e ragioneuole. | Diuisa in Quattro Libri, e per maggior commodità de' | Lettori ogni Capitolo, c'hà potuto riceuerlo, | ordinato, con ordine d'Alfabeto. | Mandata in luce, e dedicata da Luigi Grotto Cieco d'Hadria. | Con Licentia. | [rect woodcut vignette] | In Venitia, | [rule] | Appresso Giacomo Zoppani, & Fratelli. 1600.

8°: [8], 112 f; cross^{8}, A-O^{8}; woodcut portr of Cieco di Hadria at age 31 on reverse of title f; orn inits; ch orns. 15.3 x 10 cm(6 x 4 in). Cropped.

Cont: tp; portr; blank f; dedic; tab cont; text; colophon.

A quaint treatise on the wealth of the world with entries in alphabetical order and encompassing: Bk 1 earths, rocks, waters, etc, Bk 2 metals, salts and stones(including gemstones), Bk 3 vegetable substances, and in Bk 4 the last, substances animal in origin. Gemstones and ornamental materials appear in the third chapter of the second book, f 18 verso to f 32 recto, and describe and comment upon asbestos, agate, garnet, alabaster, alectorius, amber, astrolite, balas, bezoar, and others. As can be seen, our author includes materials, such as the alectorius, which are carry-overs from ancient writings and whose identities may be uncertain or even unknown. There are about 175 entries in the glossary portion of this section. A very rare work.

2229. FRÉDÉ, PIERRE

La | Pêche Aux Perles, | Par | Pierre Frédé, | [rule] | Ouvrage Orné De 37 Gravures. | [orn rule] | Paris, | Librairie De Firmin-Didot Et Cie, | Imprimeurs De L'Institut, Rue Jacob, 56. | 1887 | Tous droits réservés,

8°: 128 p; 37 cuts. Pale pink wrap, cover title; print data back cover. 16.6 x 10.6 cm(6 1/2 x 4 1/8 in). Uncut. USGS Kunz Coll, GS 34-214.

Informal, adventurous account of the author's travels in the Near East and Orient to learn about pearls and pearl fishing but only chapters 7, 8, and 9, p 57-105, contain much on the subject, and with a little information on coral also added. Not a work to be taken seriously. A vague reference indicates that the author also wrote a similar work entitled "La pêche aux perles en Perse et à Ceylon," paris, 1890.

2230. FREEDMAN, MICHAEL & BECKNER, STEVEN

The Diamond Book: | A Practical Guide | for Successful Investing | by | Michael Freedman | Edited with | Steven Beckner | [logo] | Dow Jones-Irwin Homewood, Illinois 60430 [1980]

Cementb: xiii, [1 blank], [1], [1 blank], 160 p; 14 fig. Pale gray cloth, dec; black photo dj, resume, vita, quotes. 22.8 x 15.2 cm(9 x 6 in). Cut. LC 80-70145; ISBN 0-87094-2234. JSL.

Cont: 1/2tp; tp; publ data; dedic; biogr note; pref; tab cont; ill list; text tp; introd; 12 chs; append tp; appends; gloss; index tp; index.

The author, seller of diamonds, and lecturer, tells about the diamond and how to buy cut diamonds that may appreciate in value. The factual information covers lore of diamond, history, origin, production, the De Beers organization and cartel, and quality characteristics of cut stones and certificates for same. The real substance of the book is in chapters 7 to 10, in which past price trends are examined, especially as compared to trends in commodities other than diamonds, how & where stones should be purchased, how to sell them afterwards, and taxes in respect to investing in diamonds. A short chapter similarly treats colored stones while the last chapter expresses the firm belief that prices

for fine quality cut diamonds will rise, based on the assumption that demand will rise but supply will be held level by the De Beers organization to prevent oversupply and wild fluctuation in prices. The appendices are succinct guides to buying pitfalls to be avoided, and other points. On the whole, a very good guide to the economics of investment in cut diamonds but based on future behavior of the market which failed to follow the trends so optimistically forecast by these authors and others who wrote similar guides. Enormous losses were sustained by many investors who were persuaded to buy diamonds in the late '70's and early '80's but faced catastrophic declines in value as prices fell soon after.

2231. FREEMAN, G P Size, shape and sharpness of fine diamond powder. *Diamant*, Bruxelles, nos 7, 8, 9 & 10, 1962, 18 p; not seen.

2232. FREH, WILHELM Alte Gagatbergbau in den nördlichen Ostalpen. *Mineralogisches Mitteilungsblatt, Abt Min Landesmus Joanneum*, Graz, H 1, 1956, 1-14, 3 photos on tip-in pl; text sketch. Orange print wrap. 23.5 x 15.5 cm(9 1/4 x 6 1/8 in). JSL. On old mines of jet in the northern region of the Eastern Alps of Austria; commercial coal-mining was tried in the 17th century but did not develop fully until the 18th century. A small number of coal deposits were exploited for jet, probably as early as the 14th century, most of the material being made into small ornaments and jewelry, particularly beads, crosses, and the like. A rosary and several small figurines are shown on the plate. Four deposits are described with historical notes and geology. Bibliography of 26 entries, and several quotes from old records finish the article.

FREHER, MARQUARD (1565-1614)

Ger historian, numismatist, art connoisseur; b Augsburg; prof Univ Heidelberg; prolific writer. *Biogr Univ* 16, 9-10.

2233. -----1602 Sapphirus Constantii Imp.Aug. exposita à Marquardo Frehero. 1602. 4°. Not seen: from Mariette, *Traité pierres gravées*, 1, 459,341-2, who states it to be 10 pages in length. In his remarks on specific engraved gems, Mariette notes that he has not been able to find any published account earlier than Freher's, hence making it the first as affirmed by Furtwängler, *Die antiken Gemmen*, 3, 364, who also discusses Freher and the gem concerned, providing for the latter a photograph (Fig 198) of a gypsum impression of the gem at 2x, and giving its history. Mariette notes that the above work was reproduced in *Glossarium mediae & infimae Latinitatis*, Car.du Fresne D. Du Cange, Paris, 1678, in folio. See also the footnote in Furtwängler, p 364, for another reproduction. Both authors laud the work highly.

2234. -----1681, reprint, with commentary

Sapphirus | Constantii | Imp.Aug. | exposita | à | Marqvardo Frehero | Anno MDCII. | [engrav vignette, gem in center] | Jam verò | ad multorum desiderium | cum Notis edit. | ab | Henr.Günt.Thülemario, J.U.D. | & inclutae Acad.Heidelb. Prof.Ord. | [rule] | Heidelbergae, | Sumtibus Joh. Mich.Ridigeri, Bibliopol. | Anno cIↃ IↃc LXXXI. [1681]

4°: 16 p; A-B^4. 20.8 x 16.3 cm(8 1/4 x 6 3/8 in). Cropped. USGS Kunz Coll, GS 33-289.

2235. -----1681

Gemmarvm Biga | scil. | Sardonyx | Et | Sapphirvs | olim | Marqvardo Frehero | Viro multis nominibus illustri | Explicata, | Nunc | ob Exemplarium defectum | & | Eruditorum desiderium | Recusa | & | Notis quibusdam | aucta | Per | Henr.Günt.Thülemarivm | J.U. Doct. Acad.Heidelb. Prof. P.Ord. | [rule] | Heidelbergai, | Impensis Joh.Michaelis Rüdigeri, Bibliopol. | Anno cIo Ioc LXXXI. [1681]

4°: [7], [1 blank], 30 p; pi^4, A-C^4, D^2. Ch orn, init. 20.8 x 16/3 cm (8 1/4 x 6 3/8 in). Cropped. USGS Kunz Coll, GS 33-288.

According to Mariette, 1, 347-3, this work, describing a sardonyx engraved gem in the Herman-Adolph, Count of Solms cabinet, was originally published in 1607 but no further details are given. Not mentioned by Furtwängler.

2236. FREIRE DE ANDRADE, CARLOS

Companhia De Diamantes De Angola | (Diamang) | [rule] | Serviços Culturais | Dundo-Lunda-Angola | [orn] | Subsídios Para O Conhecimento | Da Geologia Da Lunda | [orn] | Diamond Deposits in Lunda | Part I | A Geological Survey made in 1945-46 | By | Carlos Freire De Andrade, A.R.S.M., A.R.C.5., F.G.S. | Curator of "Museu Nacional de História Natural," formerly member | of "Junta das Missões Geográficas e Investigações do Ultramar" and | Colaborator [sic] of the "Serviços Geológicos de Portugal" | [orn] | With a Report on the discovery of a Kimberlite type of igneous rock | in the same fields, presented to the International Geological Congress, | Nineteenth Session. | Alger 1952 | [orn] | Lisboa | 1953 [in 2 pts, sep described]

8°: [2 blank], 151, [1 blank]p; 1 text fig; 13 geol cross-sects; 1 fold cross-sect tipped-in at end of text; part col fold map of diamond region, mounted on cloth, in back wrap cover pocket; 90 text photos. Pale gray, print wrap with foredges inward folding. 31.7 x 23.4 cm(12 1/2 x 9 1/4 in). Cut. JSL.

Cont: blank f; ser tp motto; other series publs; tp; tab cont; introd; text; blank p; fold section; map in back pocket.

Part II, 1953 ... Diamond Deposits in Lunda | Part II | A study made in 1945-48 of the diamondiferous gravels | and concentrates |...| 1953

8°: [2 blank], 224, [2 blank]p; text photos 91-117 (7 covered by translucent tissues); 2 text fig; many tabs(1 fold); 43 graphs(several fold); 9 geol cross-sects; 1 part col transparent tissue geol map with underlay of a geol cross-sect in back cover pocket. Both parts in plain cardbd slipcase.

Cont: blank f; ser tp; motto; other ser publs; tp; tab cont; text; blank f; underlay in back cover pocket.

Comprehensive study of the geology and mineralogy of the Angolan region being exploited for alluvial diamonds by the Portuguese company Diamang. First part on regional geology and petrology, part 2 detailed studies of the numerous deposits in which diamonds have been found or are expected to occur, and also a description of a kimberlite deposit found south of Maludi village. Only meager information is supplied on the diamond crystals. Supplementary to the above are "On the age of the so called "Lunda stage" in the diamondiferous region of Northern Angola," separate: *Boletim da Sociedade Geológica de Portugal*, Porto, 11, 1953, 69-74; and "On the oldest diamondiferous sedimentary rocks in the north east Lunda and mentioned

in "Diamond deposits in Lunda," separate: *Comunicações dos Serviços Geológicos de Portugal*, Lisboa, 35, 1954, 27-32.

2237. FREISING, F Die Bernsteinstrasse aus der Sicht der Strassentrassierung. *Archiv für der Geschichte d Strassenwesens*, herausgegeben von der Forschungs- gemeinschaft für der Strassenwesen, 5., Bonn-Bad Godesberg 1977, 60 p. Not seen, from G R v Bock, 1981, 174.

2238. FRELLO, P Aedelstene i Farver, Smykkestene og Lykkestene. Copenhagen: Politikens Forlag, 1972, 345 p. Not seen.

FRÉMY, EDMOND (1814-1894)

Fr chem; b Versailles; stud under Gay-Lussac; prof Chem École Polytech, later at Mus d'Hist Nat, Paris; mbr Fr Acad Sci 1857; edited 40-vol *Encyclopedie chimique*, 1882-94. Pogg I, 797-8; DSB 5, 157-8.

2239. -----1891

Synthèse | Du Rubis | Par | E.Fremy | Membre De L'Institut | Directeur Du Museum D'Histoire Naturelle | 1877-1890 | [orn] | Vve Ch. Dunod, Éditeur | Librairie Des Corps Nationaux Des Ponts Et Chaussées, Des Chemins De Fer | Des Mines Et Des Télégraphes | 49, Quai des Augustins, 49 | [rule] | 1891

4°: [1 blank]f + [1], [1 blank], 30 p + [1]f + f34-55(plates) + p[57]- 58 + [1 blank]f. The curious pag results from numbering pls recto only; 22 hinged & tissued col pls, all are photos overprinted in red but last pl, a woodcut, is also overprinted in red; 4 fig. Pale gray paper wrap, cover title. 37.2 x 23.7 cm(12 7/8 x 9 1/4 in). Uncut. USGS Kunz Coll, GS 34-378; JSL.

Cont: blank f; tp; text; resume; pl sect tp; pls; tab cont; blank f.

A famous work, reporting and illustrating Frémy's celebrated synthesis of the ruby although the latter were uniformly small in size. He gives details of the apparatus used, raw materials, procedures, and other problems associated with the synthesis. Unlike previous syntheses in collaboration with Feil, the new crystals were equant, rhombohedral in habit, and transparent instead of the previously obtained thin tabular individuals. As such, the new crystals could be used to cut very small faceted gems. Several of the color plates, of remarkable quaintness and charm, show pieces of jewelry set with such stones. Other plates depict magnified views of crystals, crystals adhering to growth vessel lining, loose specimens, and a specimen-filled vitrine. A rare work, especially in original wrappers.

FRENCH, F, see CABLE, M

2240. FREYBERG, BRUNO von Observaciones geológicas en la region de las ágatas de la Serra Geral (Rio Grande Do Sul, Rrasil[sic]). *Academia Nacional de Ciencias en Cordoba, [Argentina] Bol* 30, 1927, 129-70 + [2]p pls explan + 6 pls(19 photos), 10 fig(sketch maps, specimen drawings). JSL.

The first substantial geological/mineralogical treatise on the occurrence of agate nodules in the Rio Grande Do Sul region of Southern Brazil, famous for its enormous production of such nodules for lapidary purposes, most of which were sent to Idar-Oberstein, Germany. Only 6 entries appear in the annotated bibliography of previous writings which mention this region. On the basis of a reconnaissance in 1925, Freyberg describes geology along his travel route, shown on a sketch map, mining operations, the nature of the occurrences, discusses previous ideas on formation of agates in volcanic flow rocks and the growth of the nodules themselves, and notes the extent of the Triassic formation in which the agates occur, and finishes with descriptions of petrographic thin sections of the melaphyres in which the nodules occur. The discussion of the forms of nodules, shown in text sketches, their environments, methods of prospecting, mining, and other aspects of the industry are discussed in detail on p 149-65 and provide a most valuable and useful contribution to our still unsettled views on the formation of such agate nodules. The plates are photographs of the nodules as well as views or formations and pictures of thin-sections.

2241. -----1934

Die | Bodenschätze Des | Staates Minas Geraes | (Brasilien) | Von | Dr. B.Von Freyberg | O.Professor An Der Universität Erlangen | Mit 12 Tafeln, 73 Abbildungen im Text und auf 20 Textbei- | lagen und 84 Tabellen im Text und auf 5 Tabellenbeilagen | [logo] | Stuttgart 1934 | [taper rule] | E.Schweizerbart'sche Verlagsbuchhandlung | (Erwin Nägele) G.M.B.H.

8°: XVI, 453 p; 27 photos on 12 glossy tip-in pls at end of text; 73 fig(mostly maps, some fold, tip-in); 84 tabs(some fold, some tip-in). Pale brown thick paper wrap, title on cover with map of Brazil in green. 25.3 x 16.8 cm(10 x 6 5/8 in). Uncut. Mk 54. LC 35-10776. JSL.

Cont: tp; publ rights; dedic; fwd; tab cont; index of text fig; index of pls with captions; text in 2 parts; append; places index; errata; plates.

Elaborate, highly detailed, and very important work on the mineral resources of the State of Minas Gerais, Brazil, and still the best authority on the state. The second part, by far the larger of the two, systematically describes the mineral wealth, metallic and non-metallic, and includes large sections on gemstones, p 276-370. All of the gemstones are treated from historical, geological, mineralogical, and economical viewpoints, and, as an important feature of this work, pertinent references are inserted under each gemstone. There is a large section on the diamond, and others of good size on topaz, beryls, tourmaline, euclase, chrysoberyl, spodumene, andalusite, phenakite, amazonite, lazulite, garnet, and quartz. The diamond portion, p 276-338, is large, impressive, and by itself would form an excellent monograph. All parts are well illustrated with diagrams, sketch maps, and photos. A prized work, much in demand but now very scarce.

2242. FREYER, JAN O bursztynie. Krakow: D.E.Friedlein, 1833. 8°: 44 p, biblio p 5-8. Grabowska, *Polnischer Bernstein*, which see, claims it as first monograph on amber in Polish language(p 8). Not seen.

2243. FRIEDEL, GEORGES(1865-1933) Sur la biréfringence du diamant. *Bull Soc Fr Min*, Paris, 47, 1924, 60-94, figs. Examined cleavage flakes under polarizing microscope; illustrations show patterns of extinction; concludes that inherent stresses in crystal responsible.

2244. FRIEDEL, GEORGES & RIBAUD, GUSTAVE MARCEL(1834-) Sur une transformation du diamant à haute temperature. *Bull Soc Fr Min*, Paris, 47, 1924, 94-117. Polymorphic transformation at 1885°C ± 5°c.

2245. FRIEDL, E, & CO, VIENNA Diamant-Werkzeug-Erzeugung und Diamantschleiferei mit elektrischen Betrieb... Wien: [J.N.Vernay, 1908]. Cover title, 40 p, ill. USGS Kunz Coll, GS 34-842. Not seen.

2246. FRIEDLAENDER, CARL Diamantgewinnung in Afrika. *Vierteljahrsschrift der Naturforschenden Gesellschaft Zürich*, 89, 3, 1945, 187-210, 8 fig. General account of diamond mining in Africa but not including the French colonies. Describes type deposits and methods of mining. Not seen.

2247. -----1951

Beiträge | zur Geologie Der Schweiz | Geotechnisch Serie, Lieferung 29 | Herausgegeben... Von der | Schweizerischen Geotechnischen Kommission | Untersuchung | über die Eignung alpiner Quarze | für piezoelektrische Zwecke | Beitrag zur Kenntnis der | Baueigentümlichkeiten der Quarzkristalle | aus alpinen Mineralklüften | Von C.Friedlaender | Kommissionsverlag: | Kümmerley & Frey, Geographischer Verlag, Bern | 1951 |...

8°: IV, 98, [2 blank]p; 75 fig. Orange, print wrap, cover title. 31.7 x 23 cm(12 1/2 x 9 1/8 in). Cropped. BM(NH).

Investigates suitability of Alpine cleft quartz crystals for piezoelectric purposes, and despite the common occurrence of sutures formed by intergrowth, such crystals, if untwinned, are suitable. The study is valuable for its information on crystal morphologies, twinning, integrowths, and inclusions.

2248. FRIEDLÄNDER, FELIX

Kleinodien. | Felix Friedländer. | [orn] | Berlin. | F.Schneider & Cie. | 1898.

8°: 89, [1], [5 advert], [1] p; tan, creased heavy paper wrap, cover title. 19.4 x 13 cm(7 5/8 x 5 1/8 in). Uncut. USGS Kunz Coll, GS 33-331.

Cont: tp; fwd; poem; introd; text; tab cont; advert; print data.

Gemstones in the cultural history of mankind: curious lore, fabled gems, and poetic sentiments and quotations concerning diamond, ruby and sapphire, emerald, turquoise, opal,and pearl. All of it is charming and fulfills its aim to present basic facts to the public in an easy fashion.

2249. FRIEDLANDER, S & NITSCHE, H Perlen. *Amtlicher Bericht der Internationalen Fischerei-Ausstellung, Berlin, 1881*, p 75-90; also "Perlen auf der Internationalen Fischerei-Ausstellung in Berlin", 1881, in: *Nachrichtenblatt der Deutschen Malakozoologischen Ges*, Frankfurt-ab-M., 1882, 14, p 49-64. Not seen.

2250. FRIELING, H

Edle Steine | Ein Kapitel aus der Mineralogie | Von Dr.H.Frieling | Mit 56 farbigen Abbildungen Von Walter Wild auf | 4 Tafeln und zahlreichen Textbildern und Tabellen | [logo] | [rule] | Stuttgart 1937 | Kosmos, Gesellschaft der Naturfreunde | Geschäftsstelle: Franckh'sche Verlagshandlung

Kosmos=Bandchen 148. 8°: 63, [1 advert]p; 4 col ill on 2 tip-in glossy f; 21 fig(mostly photos); 3 tabs(one with numerous crystal drawings). Heavy paper wrap, quartz crystals photo on cover; advert. 20.7 x 13.7 cm(8 1/8 x 5 3/8 in). Uncut. Also in bright yellow cloth, cover & spine titles; pict endpapers, bookpl space, adverts. 19.4 x 13.2 cm(7 5/8 x 5 1/4 in). Cut. Prices for members: Rm 0.90 paper, 1.50 cloth; otherwise 1.10 & 1.80. JSL.

Cont: ser tp; advert; tp; tab cont & publ data; text; concl; index; advert.

Easily read and understood elementary treatise on general gemology: properties, crystallization, birthstones, carat weight, tables of hardness, properties & crystal systems, and descriptive text on major and minor gemstones beginning with diamond. Does not include organics. Large numbers printed, passed into at least an 8th printing, but see next entry.

2251. -----post 1937, 8th edit

Edle Steine |...| [logo] | 8.Auflage | [rule] | Franckh'sche Varlagshandlung/Stuttgart [nd]

8°: 63, [1 advert]p; same ill but col pls now on sep [4] f tip-ins. Pale tan paper over bds, cover title in blue & brown, with small col photo of smoky quartz crystal cut-out & mounted on cover; brown spine title. Plain endp. 19.5 x 13.1 cm(7 3/4 x 5 1/8 in). Cut. JSL. Text unaltered.

2252. FRIESS, GERDA

Gerda Friess | Edelsteine | im | Mittelalter | Wandel und Kontinuität in ihrer Bedeutung | durch zwölf Jahrhunderte (in Aberglauben, | Medizin, Theologie und Goldschmiedekunst) | Gerstenberg Verlag [Hildesheim, 1980]

8°: [1], [1 blank], [3], [1 blank], [1], [1 blank], 206, [2 blank]p. Stiff, bright blue wrap; title & profiles of cut gems in white on cover in white frames; white spine title. 24 x 17 cm(9 1/2 x 6 5/8 in). Cut. ISBN 3-8067-0833-9. DM 48.- JSL.

Cont: 1/2tp; tp; publ data; fwd; tab cont; 4 parts; 2 blank p. There are remarks & refs to lit p 192-9, an author index p 200-3, 46 entries and literature, 71 entries.

In this frequently difficult to follow and tortuous work based on the author's doctoral dissertation, department of Middle Ages history, Vienna, 1968, Friess traces the changes and continuities in the significances attached to a number of precious stones from antiquity into the Middle Ages. Such significances may be superstitions, attributed magical and medical powers, symbolic roles in religion, especially as mentioned in the Bible,and certain color-combinations as used in jewelry and in ornamental objects. The first part treats literary references to such stones from Pliny to 1200 AD, citing the most important authors of antiquity, then "Christian" writers, and Arabic writers. Here are given reasons why the seventeen "traceable" stones were chosen, namely, agate, amethyst, rock crystal, beryl, chalcedony, chrysolite, chrysoprase, hyacinth, jasper, carbuncle, onyx, pearl, sapphire, sard(carnelian), sardonyx, emerald, and topaz. The second part discusses precious stones as used in goldsmith's pieces of the 8th to 12th centuries, noting significances of Christian symbolism and the stones and their employment in certain color combinations which the author deems important and attempts to explain. The third part gives source materials for the Biblical stones in chronological order, also remarks on same, and sources in the general literature. Part four is a short postscript on several works published recently on the same or similar theme.

2253. FRISCHHOLZ, JAKOB

Lehrbuch | der | Steinschneidekunst | für | Steinschneider, Graveurs, Steinmetzen, | Bildhauer, Architekten, Mineralogen, und | jeden, welcher sich über die Veredlung | der Steine zu unterrichten wünschet | von | Jakob Frischholz, | Mineralien-

händler und Steinschneider in München, | ordentlichen Mitgliede der Grossherzoglichen Societät | für die gesammte Mineralogie in Jena. | [taper rule] | Mit zwey Kupfertafeln. | [taper rule] | München, 1820. | Bei Karl Thienemann.

12°: I-VIII, 9-326 p + [8]p; large fold pl(facet quadrant), another large fold pl shows oscillatory stone saw. Pale blue-gray wrap, title in orn frame on cover; orn rules on spine; orn frame & lyre back cover. 17.8 x 11.4 cm(7 x 4 1/2 in). Uncut. USGS Kunz Coll, GS 33-290.

Cont: tp; pref & tab cont; 6 text sects; index; errata; pls,

A comprehensive treatise on all aspects of lapidary work. It contains far more practical information than is to be found in other books on the subject written before and for many years afterward. Stones and gemstones are treated historically, including building and ornamental stones as well as the more valuable kinds reserved for jewelry, telling how they are obtained, how they are cut, the kinds of abrasives used, cutting slurries, methods of sawing and sectioning, handling large masses of rock, freehand work, polishing, turning, boring, making boxes and other ornaments, cementing, mosaic work, and in fact, almost every conceivable operation which had been used up to that time for the working of stones and gemstones. The author further discusses distinctions between real and false gemstones and gives a section on the making of optical lenses from rock crystal. The first plate shows a faceting quadrant with a degree pointer and an angle-setting lockscrew with a recess hole by which the quadrant can be mounted on a stand-rod. The second plate depicts a stone-cutting saw which is slurry-fed and is lowered to the work. For the historian of lapidary technique this book will prove to be a gold-mine of information. It is quite rare.

2254. FRITZ, ULRICH Bernstein- Gold des Nordens. *Memler Dampfboot*, 121, 16, 1970, 216-71; and *Weuchselschiff*, 1970, Aug 30. Not seen: G R v Bock, 1981, 174.

FRÓES ABREU, SYLVIO(1902-)

Brazilian geol, geographer; b Salvador, Bahia; dipl industrial chem Escola Politecnica, Rio De Janeiro 1922; prof geogr Inst Nac Tecnologia & dir-general 1952.

2255. -----1937

Série, 5,ª Brasiliana Vol. 102 | Bibliotheca Pedagogica Brasileira |... |A Riqueza Mineral | Do | Brasil |(Edição illustrada)| [logo] | 1937 | Companhia Editora Nacional | São Paulo - Rio de Janeiro - Recife

8°: [3 advert], [1 blank], 383, [1]p; 43 photos on 13 bound-in glossy f; fold sketch map; 7 text fig(maps). Col wrap, map of Brazil on front; inward fold flaps; title on cover & spine; other bks back cover & inner flaps. 18.5 x 12.3 cm(7 1/4 x 4 7/8 in). Uncut, paper browned, brittle. JSL.

Cont: adverts; blank p; 1/2tp; tp; tab cont; pref; text; persons index; subj & places index; print data.

Mineral wealth of Brazil summarized: general remarks and brief biographies of Wilhelm von Eschwege, Henry Gorceix, Francisco de Paula Oliveira, Gonzaga de Campos, John Casper Branner, Arrojado Lisbõa, Eugen Hussak, and Orville Derby, followed by accounts of the mineral products with historical notes, occurrences, resources & reserves for metals, coal, industrial minerals, diamond, gemstones, mica, and others, with a chapter on recent discoveries. The diamond chapter, p 176-204, also gives notes on famous diamonds of the world, as well as descriptions of principal alluvial deposits and the history of diamond discovery and mining with remarks on stone qualities, production, and commerce. Other chapters deal with quartz crystals, p 285-6, agate, 287, beryl, 288-9, and colored gemstones, 290-91. The photographs are views, mining scenes, diamond mining, diamond crystals,famous diamonds, and portraits of geologists.

2256. -----1960

Ministério Do Trabalho Indústria E Comercio | Instituto Nacional De Tecnologia | Sylvio Fróes Abreu - Diretor Geral | Recursos Minerais | Do | Brasil | Por | Sylvio Fróes Abreu | Vol I[-II] - Materiais Não Metalicos [-Combustiveis Fósseis E Minérios Metalicos] | Rio De Janeiro | 1960[-62]

8°: I: 471, [1 blank]p; 84 fig; 38 photos on 12 glossy f bound-in but not includ in pag. II: 696 p, not described. Gray print wrap, inward fold flaps. 22.5 x 16.1 cm(8 7/8 x 6 1/4 in). Cut. JSL.

Cont: I(only): 1/2tp; tp; tab cont; pref; generalities; 8 chs; abbrev; indexes(ill, photos, persons, subjects); blank p.

Ch 2, on materials for construction, ceramics, and refractories, contains remarks on and deposit locations for quartz, feldspar, marble, magnesite, kyanite, etc. Ch 5, insulants and abrasives, contains corundum and industrial diamond, but the major gemological information is on rock crystal, p 373-90, with illustrations, and on diamond and colored stones, in Ch 7, where major emphasis is placed on diamond, its deposits, and famous large Brazilian diamonds.

2257. -----1965, 2nd edit

Serie A Biblioteca Geográfica Brasileira Publicação Nº20 | [rule] | Instituto Brasileiro De Geográfia E Estatística | Conselho Nacional De Geografia | Recursos Minerais Do Brasil | Minerais Não Metálicos | Volume I | Por | Sylvio Fróes Abreu | 2.ª edição | Rio De Janeiro | 1965

8°: XX, 505, [1]p; 100 fig(figs 5 & 77 fold & not includ in pag); 92 photos & drawings on 17 f bound-in (not includ in pag); many tabs. Heavy pale tan print wrap, title in black & green on front. 23 x 15.9 cm(9 1/8 x 6 1/4 in). Cut. JSL.

Enlarged, updated edition. Ch 9, p 419-71, diamonds & colored stones, but most material on diamonds (to p 458), including diamonds in other countries, imitations & substitutes, famous diamonds with a list & weights, world production(1961), diamond in Brazil, type deposits(maps, sketches, cross-sects),production in Brazil, a long and valuable table of large Brazilian diamonds with names, sources, dates of discovery and weights, bibliography, p 457-8, 34 entries. The remarks on other gemstones are brief and speak only of Brazilian stones: emerald, aquamarine, chrysoberyl, tourmaline, topaz, euclase, citrine, amethyst, spodumene, zircon, corundum, phenakite, andalusite, brazilianite, and garnet. There is a long section on rock crystal, p 400-17, with 14 references.

2258. FROMANGER, H D

H.D.Fromanger | Président de la Compagnie des Experts | en perles, diamants, pierres précieuses et fines, joaillerie, bijouterie, orfèvrerie et horlogerie | Bijoux | et Pierres précieuses | Hachette [Paris, 1970]

8°: 190, [2]p (first 2 p blank); 62 b&w and 13 col photos in text. Plasticized paper over bds, col photo front cover. 24.2 x 17.2 cm(9 1/2 x 6 3/4 in). Cut. Fr 45. JSL.

Cont: blank f; 1/2tp; cover photo caption; tp; photo; pref; 9 chs; concl; biblio(p 187-8, 39 bks, 14 catalogs); tab cont; credits; publ data.

Short, popular treatise on jewelry and gemstones, emphasizing romantic aspects and largely omitting technical matter. Text poorly organized: discusses classical precious stones, diamond, pearls, jewelry through the ages, crown jewels, private collections, and another chapter on gemstones(!), the jeweler's crafts, commerce in gems and jewelry, conclusion. Rev M J O'Donghue, *J Gemm*, 13, 5, 1973, 189.

2259. FROMME, J Über die Entstehung des Nephrites und des Carcaro von Harzburg. *Centralbl Min, Geol, Paläont*, Stuttgart, Jg 1915, 431-45, 4 fig. Origin of nephrite from serpentine not established.

2260. FRONDEL, CLIFFORD(1907-) Tourmaline pressure gauges. *Amer Min*, 33, 1/2, 1948, p 1-17, 8 fig, tab. JSL. Properties of tourmaline, crystals, uses for piezoelectric purposes; crystal drawings & photos of crystals.

2260A. FRONDEL, JUDITH W Amber facts and fancies. *Economic Botany*, 22, 4, 1968, 371-82, 7 fig(3 photos amber worked objects, 4 x-ray diffr traces), 17 ref.

Nearly half of this interesting and comprehensive article deals with the history, lore and commerce in amber, followed by results of investigations on the internal nature of amber using x-ray diffraction techniques with the aim of showing similarities between them and traces obtained on modern tree resins, thus establishing possible original botanic sources of the amber fluids.

2261. FROSTERUS, GUSTAF BENJAMIN(1866-1931)

De Nyttiga Mineralen | Handbok För Studerande | Vid Tekniska Högskolor | Av | D:r B.Frosterus | Lärere | Mineralogi Och Geologi Vid | Tekniska Högskolan I Helsingfors | [rule] | 82 Figurer I Texten Och 3 Tabeller | [double rule] | Helsingfors 1917

8°: VIII, 192 p; 82 fig, 3 tabs. Pale gray wrap, photo & letterpress on cover. 25 x 16.5 cm(9 3/4 x 6 1/2 in). Cropped. JSL.

The economic minerals, in a short treatise for students in technical schools and providing brief descriptions of nonmetallic minerals, including gemstones.

2262. FRY, PAUL E (-1986)

Meanderings | Of A | Montana Rockhound | by Paul Fry | [photo of Montana agate gems set in jewelry] | © Paul Fry 1972 Priv publ, Miles City, Montana [cover title only]

Centerstapled: 32 p + text f tip-in inside back cover; sketch map of Montana agate area; 16 photos(portr of author included). Heavy white wrap, cover title. 22.8 x 15.2 cm(9 x 6 in). Cut. $1.50. JSL.

Fry owned a lapidary shop in Miles City, Montana and this booklet reflects his many years of collecting and cutting the famous dendritic agate nodules found in the gravels of the Yellowstone River of southeastern Montana. Early collecting history, origin of agates, varieties, how to find them, how to cut them; other gemstones of the region; anecdotes on collecting. Much useful collecting information.

FUCHS, PHILIPPE JACQUES EDMOND(1837-1889) & DE LAUNAY, LOUIS(1860-1938)

P J E.Fuchs, Fr eng of mines, geol; prof geol & agric École des Mines, Paris.Pogg 4, 467. See also LAUNAY, LOUIS A A DE for biogr notes.

2263. -----1893

Traité | Des | Gîtes Minéraux | Et | Métalliferes | Recherche, Étude | Et Conditions D'Exploitation Des Minéraux Utiles | Description Des Principales Mines Connues | Usages Et Statistique Des Métaux | [rule] | Cours De Géologie Appliquée | De L'École Supérieure Des Mines | Par | Ed. Fuchs L. De Launay |... [2 lines under each name, separated by a vertical rule]... | [rule | Tome Premier[-Second] | [rule] | Paris | Librairies Polytechnique, Baudry Et Cie Éditeurs | 15, Rue Des Saints-Pères, 15 | Maison A Liège, Rue Des Dominicains, 7 | [rule] | 1893 | Tous droits reserves.

8°: CXI, [1 blank], 823, [1 blank]p. Vol II: [3], [1 blank], 1015, [1 blank]p. 390 fig(some fold); 2 fold col geol maps tip-in. Maroon cloth, gilt; pale blue endp. 24.2 x 15.8 cm(9 1/2 x 6 1/4 in). GS 15-751; BM(NH).

Cont: I: 1/2tp; tp; pref; tab cont; locality index; geographical tab of deposits(with ref lists); general biblio(p XCVI-XCIX, ca 60 entries); abbrev of treatises cited; tab of measures & conversions; errata & addenda; text. II: 1/2tp, tp; text; fold pl(map with explan f); publ catalog of bks.

Encyclopedic treatise on mineral deposits with entries described according to the principal chemical element, eg, diamond, in Vol I, p 1-36, appears under Carbon as do jet, p 50, and amber, p 152-3. Quartz gemstones are therefore placed under Silica and Silicates, p 221-48, but here also is found data on topaz, beryl, garnet, and a short section on the gem stones of Russia! There are also brief remarks on marbles and alabasters in the first volume, while under Aluminum, appear the corundum gemstones, p 601-5.

FÜHNER, HERMANN GEORG(1871-1944)

Ger Phamarmacologist, toxicologist; b Pforzheim; PhD Geneva 1895; MD Strasbourg U 1902; prof pharmacology U Königsberg, Leipzig, Bonn; ret 1937.

2264. -----1902

Lithotherapie. | [wavy rule] | Historische Studien | über die medizinische Verwendung | der Edelsteine. | Erweiterter Abdruck der | gleichnamigen Inaugural-Dissertation | von | Dr.phil.et.med. Hermann Fühner. | [orn rule] | Berlin | Verlag von S.Calvary & Co. | 1902.

8°: [6], 150, [2 blank]p. Bright yellow paper over bds; title in black on cover; black cloth spine; edges flush-trimmed to pages. 22.4 x 15.4 cm (8 3/4 x 6 1/8 in). USGS Kunz Coll, GS 34-543.

Cont: tp; print data; dedic; tab cont; introd; general part, special part; concl; biblio(p 145-50, 143 entries); 2 blank p.

An expanded version of the author's doctoral dissertation of same title. In the general part, he discusses the medicinal uses of gemstones among prehistoric and primitive peoples, then the Indians, Chinese, the peoples of the Mid East, the Egyptians, and others, up to and including the Middle Ages. A broad picture is thus created of how, where, and why gemstones entered into pharmacopeias. The emphasis is on actual specific medicinal uses and less on prevention through imagined magical powers. The descriptive part of the text systematically describes

the gemstones and gives for each references to the literature in which their use in medicine is mentioned as well as what such stones were supposed to treat or cure. A valuable reference work. Reported in reprint, Ulm: Haug, 1956; not seen.

2265. FUHRMANN, R J Granat. Stuttgart: Ruhle-Diebener Verlag, 1983, 113 p, ill b&w and color. Not seen: rev M.O'Donoghue, *J Gemm* 19, 2, 1984, 186: "contains less information than the number of pages might suggest... aim is to review the garnet family... from the point of view of the amateur jewellery maker... illustrations of crystals and occurrences are provided, they are not described. There is no index or bibliography."

2266. FUJISAKI, Y Hoseki chu ken kanbi [gemstone inclusions]. Fukuoka: Fujisaki, 1980, 178 p, ill in b&w & col; 25,000 yen; in Japanese. Not seen: rev M O'Donoghue, *J Gemm*, 19, 6, 1985, 546, "even though the language may deter some readers the standard of the photographs is so high that the book should be carefully examined... a section on imitation jade is particularly valuable."

2267. FUJITA, MASAYO Shinju yosei-gaku [study of pearl-culture industry]. Tokyo: 1923, 76 p, 10 pls; in Japanese. Not seen.

FULLER, J T, see ARKANSAS DIAMOND COMPANY

2268. FULLER, RICHARD E

Chinese Jades | in the Seattle Art Museum | by | Richard E. Fuller | 1971 [Seattle, WA]

Brown plastic ring binding, loose leaves: [65]f; 61 b&w photos + 2 col photos on extra-thick glossy f. Col phot covers. 17.8 x 12.7 cm(7 x 5 in). Cut.

Cont: calendar; tp; cover photo captions; pref; [3]f of text; photos & weekly calendars; calendar(for 1973); blank f.

F[3]: "This 20th Engagement Book follows the example established last year of surveying one phase of the Museum's collection so that when the year has passed the date leaves can be torn out leaving a brief handbook of our Chinese jades... Richard E. Fuller" Generally good photos of many of the smaller jades, principally nephrites, for which this collection is known.

2269. FULLER, THOMAS E

The Right Honourable | Cecil John Rhodes | A Monograph And A Reminiscence | By | Sir Thomas E.Fuller, K.C.M.G. | Formerly Member Of The Legislative Assembly For The City Of Cape Town, | And Subsequently Agent-General For The Cape Of Good Hope | With Portraits | And Other Illustrations | Longmans, Green And Co. | 39 Paternoster Row, London | New York, Bombay, And Calcutta | 1910 | All rights reserved

8°: xii, 276 p; photo front portr pl of Rhodes, tip-in, with tissue + 12 photo pls bound-in, all on glossy paper. Dk blue cloth, blind title & single-rule frame on cover; gold title, rules on spine. Pale greenish-gray dj; title in brown. 22.2 x 14.2 cm(8 3/4 x 5 5/8 in). Cut. JSL.

Cont: 1/2tp; pl; tp; dedic; pref; tab cont; ill list; 9 chs; index.

Principally describes Rhodes political career with only brief remarks on his role in the development of the South African diamond mining industry. Basil Williams, "a most valuable memoir." Mendelssohn provides a much more detailed analysis of this work.

2270. FULLERTON, W Y God's Jewels: Their Dignity And Destiny... London: Passmore And Alabaster, Paternoster Buildings, And may be ordered of any bookseller ... [nd, ca 1890]. 8°: p i-viii, 9-125 + [1]p + [2 advert p; 9 wood engrav text figs, ch orns. Pale blue cloth with silver & black lett & panel showing Koh-i-noor diamond and facsimile signature of author on cover; gold lett & black rules on spine. Pale yellow endp. 17.5 x 11.5 cm(6 3/4 x 4 1/2 in). 1s 6d. Gemm Assoc Gt Brit Library.

2271.-----1890, New York

God's Jewels: | Their Dignity And Destiny. | By | W.Y.Fullerton. | "There Is A Jewel Which No Indian Mine Can Buy, | No Chemic Art Can Counterfeit." | Wordsworth. | American Tract Society, | 150 Nassau Street, New York. [nd, ca 1890]

8°: [2 blank], 125, [3], [2 blank]p; 9 wood engrav vignettes, ch orns. Red-brown cloth, title in silver on cover with silver & black panel showing Koh-I-Nur diamond(two views); title in gold, with rules & logo on spine. Pale olive-green floral pattern endp. 16.9 x 11.4 cm(6 5/8 x 4 1/2 in). Cut. USGS Kunz Coll; JSL.

Cont: blank f; tp; publ data; pref; tab cont; vignette; quote; vignette; 12 chs; index; 2 tables of texts; advert; blank f.

Essays concerning gems and gem materials liberally laced with references to the Bible and its teachings and with a minimum of scientific information and a maximum of anecdote and curious lore, including allusions to gemstones mentioned in the Bible. Much of the information as well as several of the charming and accurate wood engravings have been obtained from the works of Edwin W Streeter. A surprisingly large amount of space, though sprinkled throughout the text, concerns tales of famous diamonds and other large and important gems.

FUNCK-BRENTANO, JACQUES-CHRÉTEN-FRANTZ-SÉRAPHIN(1862-1947)

Eminent, learned Fr historian; earned & awarded numerous degrees and honors; noted for his many historical treatises written in an interesting and animated style. DBF 14, 1443.

2272. -----1901

The | Diamond Necklace | Being The True Story | Of Marie-Antoinette and | the Cardinal de Rohan | From the New Documents recently discovered | In Paris | By | Frantz Funck-Brentano | Authorized Translation by | H.Sutherland Edwards | With Twelve Full-page Illustrations | [logo] | Philadelphia | J.B.Lippincott Company | 1901 [Title in ruled frame]

8°: 350, [2 blank]p; 12 glossy photo pls tip-in(one is front). Dk blue cloth, red title on cover with silver necklace, all in red ruled frame; red lett, rules, orns on spine. 18.9 x 12.6 cm(7 3/8 x 5 in). Cut. Teg. JSL.

Cont: 1/2tp; pl; tp; publ data; tab cont; ill list; 40 chs; blank f.

On the basis of newly-discovered information, recounts the astonishing tale of the diamond necklace sold to Queen Marie-Antoinette. Carefully researched and now considered the standard work on the subject. Authorities used by the author appear in the first chapter. The plates show notorious persons associated

or connected to the scandal and also a representation of the necklace. It is presumed that there was a French edition from which this translation was made but it has not been seen.

2273. -----1901, London

The | Diamond Necklace |... | With Twelve Full-page Illustrations | London | John Macqueen | 49, Rupert Street, W. | 1901 [title in ruled frame]

8°: 350, [2 blank]p; same ill. Green cloth, gold title & lozenges on cover; same on spine. 19.4 x 12.8 cm(7 5/8 x 5 in). Cut. Be untrimmed. JSL.

Editions of this work also appeared in German, Italian, and Danish; a revised 5th edition appeared in Paris in 1903; I have also seen a Greening & Co., London, edition of 1911, and another in the Collins' Novel Series, London, no date; presumably other editions also exist. Also seen, a French edition, Paris, Editions Jules Tallandier, 1926, 281 p, 18 pls.

FURCRON, A S, see CLARKE, R S & HENDERSON, E P

FURLANUS, D, see THEOPHRASTUS, 1605

2274. FURNISS, H W

Diamonds and Carbons | In Bahia, Brazil [New York: S.Dessau, 9 Maiden Lane; ca 1902]

P 13: "Abstract from Consular Reports on Diamonds on [sic] Carbons in Bahia by H.W.Furniss, Consul. Bahia, June 23, 1902."

Centerstapled: 15, [1 blank]p (first p blank); 3 photos. Pale blue-gray wrap, title on cover in orn frame, with rules. 19.6 x 13.4 cm (7 3/4 x 5 1/4 in). Cut.

Historical notes on diamonds and carbonados in Bahia, Brazil, with description of the industry in the Paraguaçu district, geological notes, mining, labor problems, regulations, selling practises, and notes on the carbonados and the output. Also see GS 34-988, the original report.

FURST, P T, see SELIGMAN, D H

FURTWÄNGLER, JOHANN ADOLF MICHAEL(1854-1907)

Ger archeol, art connoisseur; b Freiburg; educ Freiburg, Leipzig; PhD München 1874; travel/studies in Italy, Greece 1876-8; assist excavations Olympia, Aegina, other Grecian sites; to faculty Bonn U 1879; prof München U; author several large, authoritative works on ancient vases. See extended biogr & other notes on his works in Zazoff, *Gemmensammler*, 203-4.

2275. -----1888-93 Studien über die Gemmen und Künstlerschriften. *Jb K Dt Archäol Inst*, Berlin, 3, 1888, 105-39, 193-224, 297-325; Bd 4, 1889, 46-87; Bd 8, 1893, 185-6. Also in his *Kleine Schriften*... herausgegeben von J Sieveking und L Curtius, Bd 2, München, 1913, 147-291. Not seen.

2276. -----1896

Königliche Museen Zu Berlin | [long underline] | Beschreibung | Der | Geschnittene Steine | Im Antiquarium | Von | Adolf Furtwängler | [Ger eagle] | Mit 71 Lichtdrucktafeln Und 129 Textbildern | Preis 35 Mark | Berlin | Verlag Von W.Spemann | 1896

4°: XIII, [1 blank], 391, [1 blank]p + 71 sepia-tinted photo pls bound- in; 129 text figs. Originally in print wrap? P size ca 27 x 20.7 cm(10 5/8 x 8 1/4 in). Cropped. JSL.

Cont: tp; print data; fwd; fwd & hist of collection; tab cont & abbrev; catalog; addits & corrects; errata; comparative tab catalog nos; index to discovery sites; index of materials; index of forms; index of inscribed gems; index of subjects; blank p; plates.

The descriptive catalog of the 11,372 engraved gems, and 3 engraved vases, in the Royal German collections in Berlin, now housed in the Staatliche Museen Preussischer Kulturbesitz, Antikenabteilung, Berlin. For a recent description of same, see Zwierlein-Diehl, *Antike Gemmen in deutschen Sammlungen*, 1929, vol 2. The present work begins with a foreword and history of the collection from its inception in the 17th century to the time of writing, citing the several catalogs previously issued and later acquisitions of gems. Aside from these mentions, there is no formal list of references although such appear in gem descriptions. The catalog entries are arranged in chronological order, beginning with Mycaenean gems and passing through an Archaic period into "works of Alexander the Great's epoch and beyond," and including modern gems. The plates depict 5,515 specimens, all in original size, with intaglios photographed from impressions. This work clearly established the authority of Furtwängler in respect to engraved gems.

2277. -----1900.

Die | Antiken Gemmen | Geschichte | Der Steinschneidekunst | Im Klassischen Altertum | Von | Adolf Furtwängler | [rule] | Erster Band: 67 Tafeln In Heliogravure | Zweiter Band: Beschreibung Und Erklärung Der Tafeln | Dritter Band: Geschichte Der Steinschneidekunst | Im Klassischen Altertum Mit 3 Tafeln | [oval gem] | Giesecke & Devrient | Leipzig Berlin | MCM [1900]

The above title, for the complete work, appears in each volume along with a facing title, see below.

Vol I: Die | Antiken Gemmen |...| [rule] | Erster Band | Tafeln | [rule] | Giesecke & Devrient |...

2°: XVI, [1], [1 blank]p + 67 tissued photo pls + [1], [1 blank]p. The leaves to p XIII-XIV are sewn-in, but leaf XV-XVI is tip-in! and the next f cloth-hinged; all pls cloth-hinged, as is final f. Numerous f loose or partly detached due to failure of cement on the cloth strips. Dk purplish-brown 1/3 leather, gold lett on spine with gold Greek bands and engraved gem; pale gray-green, tan & white marbled paper sides & endpapers. Inner red cloth covers hinges. Teg. 32.8 x 26.8 cm(12 7/8 x 10 1/2 in). Cut. RM 260(the set of 3 vols). JSL.

Note: a large box, shaped like a book, and bound in pebbled brown leather on spine and covering the front portion which slips loose from the remainder of the case. This portion also contains a spine inset of an ivory-like material formed as a cameo and set upon a circular gold medallion. The body of the box is covered with pale purplish-gray pebbled paper with matching brown pebbled leather corners; the "page edges" are dark, black-green paper marbled in gold; lined with white glossy paper. A large gold-stamped engraved gem, 13.5 cm, or 5 3/8 in, appears on verso of box cover. Title, ornamental rules, blind-stamped on spine & leather edges. Overall: height 38.5cm(15 1/4 in), width 35 cm(13 3/4 in), and thickness 16 cm(6 1/4 in).

All three volumes slip comfortably therein, and when the loose portion is thrust into place, the entire assembly looks like a single volume, albeit of remarkable size!

Cont: blank p; tp; vol tp; tab cont for vol; fwd; pls tp; pls; publ data(with small fig of a gem); blank p.

Vol II: Die | Antiken Gemmen |...| [rule] | Zweiter Band | Beschreibung Und Erklärung Der Tafeln | [rule] |...

2°: [8], 330, [1], [1 blank]p; 28 fig(mostly line drawings of engrav gems + 4 photos).

Cont: blank p; tp; vol tp; tab cont; text tp; text; index; publ data.

Vol III: Die | Antiken Gemmen |...| [rule] | Dritter Band | Geschichte Der Steinschneidekunst | Im Klassischen Altertum | Mit 3 Tafeln | [rule] |...

2°: XIII, [1 blank], [1], [1 blank], 464, [1], [3 blank]p (first and last f blank); 3 pls (on very pale yellow panels, tissues, cloth-hinged); 237 fig (mainly photos, some line drawings).

Cont: blank f; tp; vol tp; tab cont; ill list; text tp; introd; 10 sects; append; addits; index; publ data; 3 blank p.

The word "monumental" is justly applied to this work in respect not only to its size but also to its content; it is the most comprehensive monograph ever published on the engraved gems of antiquity. Zazoff, *Gemmensammler*, p 224, states that "no catalog, no encyclopedia article, no engraved gem book in the following period did not [fail] to orient itself upon Furtwängler." To confer the greatest accuracy and authority to his work, Furtwängler personally visited many Euronean museums to examine their collections. The first volume of 67 heliogravure plates, tinted in pale grayish-blue, sepia, or pale gray, provides images of many gems per plate, ranging from Near Eastern cylinder seals to Roman gems, while a series of plates depict several very large engraved gems as the great Parisian cameo, the Farnese tazza, and others which are not treated in the normal chronological order of the remainder of the plates. As mentioned previously, the plates are cloth-hinged but in my copy, at least, many of the plates were loose due to the failure of the cement. The second volume describes the depicted gems, with some additions and corrections appended to the main text. Such descriptions furnish data on gem material, provenance, where previously published, and remarks, but no dimensions inasmuch as all are shown actual-size.

While these first two volumes are vital to the success of the work as a whole, it is the third volume which proves to be most valuable in terms of the information provided by Furtwängler on such aspects of engraved gem study as origins, significances, engravers, meanings of gems, values, uses, their collectors, famous collections, techniques of engraving, and many more topics. This volume commences with a chronological/regional history of the development of gem engraving in the Near East, during the Mycaenean epoch, the Greek periods, the Roman periods, and ending with gems of the Late Roman Empire. The large appendix contains full remarks on on gem engraving in the Middle Ages and later times, and also a survey of the gemstones employed for gems, p 382-402, and incorporating a fine review of the techniques and tools of the gem engraver. He subscribes to the view that the diamond point must have been used in antiquity for rendering very fine details in gem carvings.

To a bibliographer and the student wishing to uncover the significant literature on engraved gems, few places are better examined than Furtwängler's bibliographical section, p 402-34, which begins with a commentary on Enea Vico's copper engravings of gems, the first ever published, and then takes up the many works in chronological order from Vico onward. The three plates of this volume appear here to illustrate several large and famous books on engraved gems, namely Stosch and Monaldini. The comments on the numerous treatises which Furtwängler obviously examined with minute care are concise and to the point, and commonly, in the case of shallow or inaccurate works, bluntly derogatory. Some of his strongly-voiced opinions, however, do not meet agreement in comments from other engraved gem experts, eg, C W King of England. For more on this controversial aspect, see Zazoff, *Gemmensammler*, 222-9.

The first issue of this work was a costly project and relatively few sets were sold with the result that any set offered is very expensive, and even more so if enclosed in the special slipcase described above. Even the reprint described below is now scarce and also expensive.

2778. -----1964-5, facsimile reprint

Die | Antiken Gemmen |...|[oval gem] | Verlag Adolf M.Hakkert Otto Zeller Verlagsbuchhandlung GMBH | Amsterdam 1964[-5] Osnabrueck

As before, the above is the full title supplied with each volume and with facing volume title, but all bearing the name of the new publisher, etc.

Vol I: a gathering of 10 leaves: [2 blank], XVI, [1], [1 blank]p + the plates, these now printed uniformly in pale blue-green on slightly yellowish paper; pls sewn-in in sixes. Dk blue unfin cloth, gold cover & spine titles, no ornamentation. 32 x 24.7 cm(12 5/8 x 9 3/4 in). Cut. JSL.

Vol II: 4°: [8], 330, [2 blank]p. 31.4 x 22.4 cm(12 3/8 x 8 7/8 in). Cut. This volume dated 1965.

Vol III: 4°: XIII, [1 blank], [1], [1 blank], 464 p (the first f is blank). Same p size, same date. The text paper in II and III is pale cream in tint.

All plates now much inferior and have lost considerable detail in the plates volume while the three plates in the third volume are now tip-ins; none of the plates are fitted with tissues.

2279. -----1900 Catalogue sommaire de la Glyptotheque fondée par le roi Louis 1er à Munich. [also in English: "A short description of the Glyptothek. München, 1900, 8°, 52 p.] Not seen.

2280. FURUYA & CO, LTD

Cameo [Kofu-shi, Yamanashi-Ken, Japan: Furuya & Co., Ltd; nd, ca 1982; date from back cover and from a brochure advertising their cameos]

Cementb: [64]p; 1 b&w + 65 col photos(many fullp); fold yellow doublepage sheet bearing an old view of Oberstein Castle which serves as front endpaper & flyleaf; similar doublep sheet bearing map of the Idar-Oberstein region serves as back endp & flyleaf. Each cover liner is lightly cemented to the cover and easily detached. Cover: black plasticized paper, gold title, white spine & gold title + color dots; back cover black with company name & address in gold. 26.9 x 20.8 cm(10 1/2 x 8 1/8 in). Cut. No further information provided. Price ca USA $10.00. JSL.

Cont: tp; history of cameos; Idar-Oberstein; biographies of 3 cameo engravers; cameo ill; index.

A work that is truly remarkable for the excellence of its color photographs of modern cameos made in Idar-Oberstein for the

Japanese firm of Furuya & Co., and including vessels with engraved sides and copies of famous cameos of very large size, eg, Grand Cameo of France, Tazza Farnese, and the Gemma Augustea. There are also cameos after paintings by Millet, others portraying characters in Greek mythology, and some modern subjects. The workmanship is superb and the company claims in their advertising brochure that they "discovered a new technique which now allows us to fabricate cameos in a far shorter period of time" in small jewelry sizes but also "to big sized products such as ornament plates with a diameter of 30 cm." The index is to the illustrations and gives the name of the object, the artist, date of execution, and the size in millimeters, There are brief vitas for engravers Gerhard Schmidt(1953-), Richard H Hahn(1917-) and Dieter Roth (1948-). Parallel Japanese & English text, captions In German & Japanese.

2281. FUTERGENDLER, S I [X-ray study of solid inclusions in the Ural and Yakutia diamonds.] *Materialy Vsesoyuznogo Nauchno-Issledovatel'skogo Geologicheskogo Instituta*, Moskva, no 40, 1960, p 3-87. Not seen, from H O A Meyer, 1982.

2282. FYFE, H HAMILTON

South Africa | To-Day | With An Account Of | Modern Rhodesia | By | H.Hamilton Fyfe | Author Of "The New Spirit In Egypt" Etc. | London | Eveleigh Nash | 1911

8°: viii p + p 9-298 + [1], [1 blank]p; 36 photos on 16 tip-in glossy f. Red cloth, blind title & dec on cover; gold lett spine. 22 x 14 cm (8 5/8 x 5 1/2 in). Cut. JSL.

A popular portrait of South Africa at the time with Ch 5, 57-67 on Kimberley and its diamond mining, and Ch 6, 68-78, devoted entirely to diamond mining.

2283. ----- 1912(?), French transl

H.Hamilton Fyfe | [rule] | Aux Pays De L'Or | Et Des Diamants | Cap - Natal - Orange | Transvaal - Rhodésie | Adapté De L'Anglais | Par Georges Feuilloy | [rule] | Vingt-deux photogravures et une carte | [rule] | 2e Edition | Paris | Pierre Roger Et Cie, Éditeurs | 54, Rue Jacob, 54 | [rule] | Tous droits de reproduction réservés. [nd] ["Les Pays Modernes"]

8°: [3], [1 blank], 268 p; fold sketch map of South Africa bound-in; 22 photos on 20 bound-in glossy f. Dull orange wrap, red & brown lett, with col ostrich feather & crown on cover; spine title; other publ bks back cover. 20.3 x 13.7 cm(8 x 5 3/8 in). Uncut. 4 Fr. JSL.

Cont: 1/2tp; publ bks; tp; pl; 23 chs; fold map; tab cont.

Some rearrangement of matter; Ch 6, 64-75, on Kimberley and its mines, Ch 7, 78-86, on diamonds and the diamond industry.

GAAL, ROBERT A P, see COPELAND, L, 1950, 1974, 1977.

GABELCHOVER, W, see BACCI, A, 1603, 1643

GADOLIN, JOHAN or JOHANN, JOHANNE(1760-1852)

Swed chemist; b Turku, Finland; educ Turku & Upsala under T Bergman; prof chem Upsala; isolated yttrium, leading to discovery of more rare earths; gadolinium named after by Fr chem Boisbaudran; DSB, 5, 215-6.

2284. -----1827

Commentatio | De | Gemmis | Arte Procreandis. | Cujus partem Primam[- Secundam, Tertiam] | Consensu Ampliss. Facult. Philos. | Praeside | Mag. Johanne Gadolin | Chemiae Professore Ad Acad.Imp.Aboensem Emerito; |... [9 lines of honors, mbrships] ... | Pro Gradu Philosophico | Publico Examini Subjicit | Andr.August.Von Pfaler [& two others; see below] | Satacundensis. | In Audit.Jurid. die xxv Junii MDCCCXXVII | h.a.m.s. | [orn rule] | Aboe. Ex Officina J.C.Franckell. [Åbo=Turku, Finland; 1827]

Simultaneous examination of three doctor of philosophy candidates, as named In the titles below. Ref: A Laitakari, 1934, p 58. [2:] Commentatio |...|Cujus Partem Secundam |...|Publico Examini Subjicit | Georgius De Besche | Stipend.Publ.Satacundensis. | In Audit.Jurid. ... [3:] Commentatio |...| Cujus Partem Tertiam |...| Publici Examini Subjicit | Bened.Olav.Lille | Stipend.Publ.Wiburgensis, | In Audit.Jurid...

8°: [1]f + 37, [1 blank]p; title leaf 2 between n 12-13 and 3 is between 24-25. 20.8 x 13.5 cm(8 1/4 x 5 1/4 in). Plain gray-blue wrap. Uncut.

Discusses some general principles of chemical combination, alumina in gemstones, its isolation by chemical means, and the compositions of alumina-bearing gemstones as corundum, chrysoberyl, spinel, beryl, euclase, topaz, and garnets. There are no numerical proportions given.

2285. GAERTNER, HEIN

Achate | Steinerne | Wunder | Der | Natur | von | Hein Gaertner | Idar-Oberstein | [logo] | Alles + Brillant · Fachverlag · Friedrichsdorf/Taunus [1971]

8°: 71 p; 32 col pls cut-out & mounted on text f + 16 b&w ill(1 sketch map). Col paper over bds. Dj. 27 x 20.4 cm(10 5/8 x 8 in). Cut. JSL.

Cont: 1/2tp; tp; publ data; fwd; introds; 17 chs; tab cont & index.

Chiefly valuable for its splendid color photographs of agate and other forms of chalcedony depicting some of the specimens in the personal collection of the author, which Georg O Wild, in the first introduction, calls "large and very valuable." Especially interesting are the many examples of local Idar-Oberstein agates which now are almost impossible to obtain. There are also specimens from Brazil, St Wendel in the Saar, moss agate from India, and others. All pieces are cut and polished, mostly as slices. Text is brief: classification of quartz family minerals, origin of agate, agate types, sources, history, early lapidary work in agate, especially in the Idar-Oberstein region, mythology, birthstones, and a resume of agate properties. Rev *J Gemm*, 14, 2, 1974, 92; *Austral Gemm*, 11, 11, 1973, 32.

GAFFAREL, JACQUES(1601-1681)

Learned rabbinical scholar, historian; b Mannes, Provence; theol degrees U Valence; libr to Card Richelieu who sent him to Rome to buy rare books & mss; chaplain to King of Fr; esp noted for work below, described as a "feast for the occult philosopher," and condemned by the Sorbonne (Frank Hammond Cat 1967); he also wrote "History of the Subterranean World, containing a Description of Caves, Grottoes and Caverns, etc."(1666). Wing G 105; *Biogr Univ*, 16, 248-50; Thorndike 7, 304-6.

2286. -----1629 Curiosités inouies sur la sculpture talismanique des Persans, horoscope des patriarches et lecture des étoiles.

Paris: 1629. 8° Not seen. According to *Biogr Univ*, ibid, further editions Rouen, 1631, 2 more without places stated 1637 & 1650; in Latin, by Gregoire Michaelis, 2 vols, Hamburg 1676-78, with the second volume containing notes; a new edition of the last by Fabricius, with life & works of G in 2 vols, Hamburg, 1706 (see below).

2287. -----1631, Fr edition

Cvriositez | Inovyes, | Svr La | Scvlptvre | Des Persans. | Horoscope | des Patriarches. | Et Lectvre | Des Estoilles. | Par M.I.Gaffarel, | M.DC.XXXI. [no place, no publ, Paris?, 1631]

8°: [16], 315, [1 blank]p; 2 fold star charts (32.5 x 26.5 cm, 13 x 10 1/2 in) numbered "316" and "317" respectively, thus extending pagination accordingly although both charts are on a single f and bound-in. Collation: a^8, A-T^8, V^6 (last gathering does not include charts); text diagram; 2 tabs; 11 woodcuts, orn inits, ch orns. 16.8 x 10.9 cm(6 5/8 x 4 1/4 in). JSL.

Cont: tp; dedic; addits & adverts; text in 4 parts of 13 chs; pl explan; pls.

The folding star charts are entitled "Premier Figvre De Configvration Des Estoilles En Characteres Celestes. Alphabet Hebrev Celeste" amd "Seconde Figvre Svivant La Premiere." Both shows stars and constellations stamped with extremely crude Hebrew letters in accordance with the alphabet provided. Ch 5, p 72-196, on "Gamahe," that is, engraved gems, is discussed below.

2288. -----1637, another Fr Edit Curiositez... Horoscope des Patriarches et lecture des Estoilles. No place, no publ, 1637, 8°, 8 f + 315 p, 2 fold engrav pls. Not seen. Reprinted(?) in 1650.

2289. -----1650, Engl edit Unheard-of curiosities; concerning the talismanical sculpture of the Persians; the horoscope of the Patriarkes; and the reading of the stars. Written in French, by James Gaffarel. And Englished by Edmund Chilmead, Mr. of Arts, and Chaplaine of Christ-Church Oxon. London, Printed by C.D. for Humphrey Moseley, and are to be sold at his shop, at Princes Annes in St.Pauls Church-Yard. 1650.

8°: [x1], 435 p; A^8, a^8, b^4 B-Z^8, Aa-Ee^8; 1 fold star chart; 2 text tab; woodcuts. 16.5 x 10.5 cm(6 1/2 x 4 in). Cut. Examined in haste.

Cont: tp; blank p; p [ii] gives a brief printing history in Latin & English expressing the suspicion that the book has been printed in an unauthorized edition of "very great corruption, both the sense, and stile"; prelims also include a dedic by the Engl transl, Gaffarel's dedic, author's introd, and tab cont; text in 4 parts of 9 chs; pl.

The 4 parts are: I Wherein the Jewes, and other Eastern Men are defended, II Of the talismanical sculpture of the Persians; or the manner of making figures, and images, under certain constellations, III Of the Horoscope of the Patriarchs: or the astrology of the ancient Hebrews, and IIII Of the reading of the stars, and what ever else is seen in the aire.

Ch 5 in the second part is mostly of interest to gemologists because on p 96-144 it treats engraved gems, and other gemstones in which the images, however, are natural. This chapter is entitled "The Power of Artificiall Images is proved, by that of those that are found Naturally imprinted on Stones and Plants, commonly called Gamahe, or Camaieu, and Signatures." What Gaffarel called "ganahe" or "camahieu" are stones in which appear recognizable likeness of human beings, plants, animals, or other objects or scenes whose presence is ascribed to supernatural "imprinting." The word "camaieu" has now become "cameo" in English and "camée" in French, but its origin is obscure according to Gaffarel who believes it to be derived from the Hebrew word "chemaiah," signifying "as the waters of God," in allusion to the streaked or fluid patterns seen in some agates. Further, this chapter describes various types of *lusus naturae*, including fossils, which Gaffarel rejects as actual petrifications because of their being found upon elevated places far from the sea, but in the same vein, he also rejects engraved gems as man-made objects and believes them to be natural productions! Respecting the last, he ridicules Cardan's contrary statements in *De Subtilitate*, and as confirmation for his own views, points to Albertus Magnus' opinion of the famous Ptolomaic cameo of Cologne (given as "Collen"), which Albertus thought to be formed by natural forces (see Wyckoff, *Book of Minerals*, 1967, p 130-1) Gaffarel cleverly reasons that such *lusus naturae* possess real curative or talismanic powers. Examples of such visual sports are also cited from the animal and vegetable kingdoms although the major portion of Chapter 5 is devoted to specimens from the mineral kingdom. A classic case of belief in the "imprinting" powers of God is illustrated by the ridiculous fossils dug by Professor Beringer and published in his *Lithographiae wirceburgensis* of 1726 which all proved to be fakes planted in the fossil quarry by his students but accepted without question by the gullible professor. An account of this hoax is given by M E Jahn & D J Woolf in their *Lying Stones*, 1963.

2290. -----1676, Latin edit Curiositez invoyes, hoc est:curiositates inauditae de figvris Persarum talismannicis, horoscopo Patriarcharum et characteribus coelestibus; Latinè cum notis quibusdam ac figuris editae, opera M. Gregorii Michaelis. - Notae in Jacobi Gaffarelli curiositates. Hamburgi, apud Gothofredum Schultzen. 1676. 16°: 29 f, 290 p; 1 f, 2 f; 498 p, 23 f. Engrav front; title vignette in the second work, & 15 plates,engrav on wood. Not seen; taken from a bookseller's catalog. Graesse III, p 2; Brunet i, 1433.

2291. -----1706, Latin edit

Jacobi Gaffarelli. | Curiositates | Inauditae, | sive | Selectae Observationes | De Variis Superstitionibus | Veterum, Orientalium Maxime, | Judaeorum, Persarum, &c. | De Figuris Talismanicis, | Horoscopo Patriarcharum Cha- | racteribusque Coelestibus. | E Gallico Latina versione donate | illlustrataeque | â | M.Gregorio Michaelis, | Praeposito Regio Flensburgensi. | Praefixa est huic Editioni novae | Praefatio | Jo.Alberti Fabricii, D. | Qua de Auctore & Scriptis ejus succincte agitur. | [rule] | Hamburgi, | Sumptu Benjaminis Schilleri, | 1706.

8°: [78], 290, [36]p;)(^{7}, ****^{8} [sic], *-***^{8}, A-T^8, U^4. Fold engrav allegorical title tip-in facing printed title; 9 fold woodcuts of deities (15 figs); 2 fold star charts; text figs. P size not noted.

Cont: engrav tp; tp; pref by Fabricius; pref; dedic; tp; dedic; addit & admonit pref; text; append; author index: subj index; binding instruct.

GALEOTTI, NICCOLO, see BARTOLI, P S, 1751-52; FICORONI, F

2292. GALERIE WOLFERS Collection Su Hsioung-Tsang. Jades de la collection Weiping Hsioung-tsang Su. Pierres dures.

Exposition (4-17 Avril, 1954). Bruxelles, 1954. 23 p, 4 pls, 4 text fis; 15 x 11 cm, paper. Not seen: data from Yang 2020 and Han-Shan Tang List 28, London, 1985, no 106, wherein the date is given as 1951, and "includes a preface by Xu(Su) who was an honorary ambassador in Belgium, and an outline of Henri Michel's theories on the astronomical use of jades."

2293. GALIBOURG, JEAN(1891-1945) & RYZIGER, F
Les méthodes d'examen et d'étude des perles et des perles de culture. *Revue d'Optique théorique et instrumentale*, vol 6, Paris, 1927, Separate: centerstapled, 37 p, [1]f [p 97- 133 in journal]; 47 fig. Print wrap. 24 x 15.7 cm(9 1/2 x 6 1/8 in). JSL.

Important early account of the use of the optical pearl endoscope devised by Chilowski & Perrin, as well as a method devised by Galibourg & Ryziger which used a reflective column of mercury to examine the nature of bore holes in pearls. Additional information supplied on other testing methods by specific gravity differences and X-ray patterns. Galibourg was a skilled French metallographer & technician; ScD École Centrale 1925; spec in study of alloys of Al-Cu, stainless steels, etc. DBF, 15, 166.

GALLITZIN, or GALLITSIN, GALLIZIN, DIMITRI or DMITRI ALEXIEVICH(c 1738-1803).

Russ prince; 1763 apptd anbassador to France; establ correspondence with Voltaire who praised his good qualities; 1773 apptd resident minister to the Hague; in his day considered a leading scientist, strongest interests in earth sciences, in which field published a number of papers & bks. *Biogr Univ*, 16, 342; Pogg I, 836-7.

2294. -----1792-6 Traité de mineralogie, ou description abrégée et méthodique des minéraux par le Prince de Dimitri de Gallizin. Mastricht. 1792. 4°. A new edition publ Neuwied, 1794, and another, "revue, corrigée et considerablement augmentée par l'auteur, " Helmstedt, 1796. None seen; from Leonhard, Kopp, & Gaertner, *Propadeutik der Mineralogie*, 1817, p 241. Agassiz III,8.

2295. -----1801

Description | Abrégée Et Méthodique | Des Minéraux. | Par Le Prince D. De Gallitzin, | Membre honoraire de l'Académie des Sciences | & des Arts de Pétersbourg, de Stockholm, de | Berlin, &c. &c. | [taper rule] | A Paris, | Chez Ant.Aug.Renouard, Libraire, rue | S.-André-des-Arcs, n°.42 | An IX - 1801.

4°: [2]f + vi p + p [7]-245 + [3]p; (p i-ii absent, canceled?); pi^2, A2-4; B-Ff^4, Gg-Ii^2. 22.5 x 18 cm(8 7/8 x 7 in). Cropped. JSL; Agassiz III, 8.

Cont: tp; blank f; avis; canceled f(?); introd; text; index; errata; avis.

In this general mineralogy, largely descriptive, Gallitzin's introduction explains that he classified minerals into 8 orders or "genres," namely, (1) quartzeux, (2) métaux et demi-métaux natifs, (3) matieres calcaires, (4) produits végétaux & des animaux, (5) acids & les sels, (6) matieres mixtes, (7) métaux et demi-métaux mineralises, and (8) ouvrages & les produits des feux souterrains. These orders are then taken up in the text but as can be imagined in the light of what is now known, some strange companions were put together in various places. Where possible, all entries identify the mineral or variety by name, giving parallel names in other languages, a description, origins, localities and physical properties. Footnotes in small type are abundant and cite authorities for text statements. Under quartzose (silica) minerals are jasper, porphyry, many colored varieties of crystalline quartz, also rock crystal, topaz, peridot, beryl, labradorite, cordierite, cat's-eye chrysoberyl, opal, aventurine quartz, tourmaline, garnet, zircon, chiastolite, kyanite, corundum, serpentine, many kinds of chalcedony, also hydrophane, and some others. Marbles and gypsums appear in the 3rd order, while the 4th order includes jet, amber, and, strangely, in a sub-class called "transparent materials," the classical gemstones as diamond, ruby, topaz, sapphire, spinel and zircon. The 6th order includes "mixed" minerals, eg, lapis lazuli and fluorite, and the 7th order, metallic compounds, contains malachite and turquoise. The information on gemstones is standard as of that period. According to Leonhard, et al, cited above, another edition issued in Mainz, 1808, in 4°; not seen.

2296. -----1801

Recueil | de Noms par Ordre alphabetique | apropriés en | Mineralogie | aux Terres et Pierres, aux Métaux et Demi-Métaux, | et aux Bitumes; avec un précis de leur | Histoire-Naturelle, | et leurs Synonimies en Allemand: | suivi d'un | Tableau Lithologique | tracé d'après les analyses Chimiques. | [orn rule] | Par | Le Prince Dimitri De Gallitzin | Membre étranger de la Société Royale de Londres, et Honoraire | des Academies Imperiales des Sciences, des Arts et de la Société | libre Economique de St.Petersbourg; de celle des Cureieux de la | Nature; des Academies Royales de Stockholm et de Berlin; de | celles des Sciences utiles de Mayence et d'Erfurt, etc. | et Président de la Société mineralogique | de Jena. | [orn rule] | Les Genres, adoptés par les Chimistes, ont leur fondement dans l'analyse. C'est à la | Chimie qu'il appartient de poser les premiere fondemens de la méthode, | par la détermination des espcces. (L'Abbé Hauy.) | [orn rule] | Brunsvik | de l'Imprimerie de la maison des Orphelins, | 1801.

4°: VIII, 320, [2]p; $*^4$, A-Rr^4 + [1]f unsigned & supplied(errata). 19.3 x 16 cm(7 5/8 x 6 1/4 in). Cropped. JSL.

Cont: tp; pref; dictionary; suppl; tabs; errata leaf.

A large, important, and very rare mineralogical/gemological dictionary. Because of its scarcity, none of the common dictionaries or glossaries of later years even mention its existence, eg, Keferstein, Chester, Page, etc. Gallitzin comments on nomenclatural problems in his preface and notes that the new chemical analyses now indicate relationships among species that should be used in their classification. In this respect, the quotation from Haüy in the title is significant of Gallitzin's embracing the recent developments in chemistry with complete enthusiasm. The species and varieties, named in French, are taken up alphabetically, with synonyms in German, other common names, and then in each entry, as appropriate, identification, brief description, sometimes with property data, and citing authorities who have described the minerals or given them their names. As a result, the work is more in the nature of an encyclopedia and is similar to Bertrand's *Dictionnaire*, 1763, for example. The entries for gemstones are numerous and much valuable information can be found in them, perhaps occupying one-fourth of the total text space. The supplement adds a few more terms and is followed by a lengthy set of tables in which the distribution of species and varieties is analyzed according to chemical composition, giving possible chemical combinations by type, and with tabulations of species/varieties according to classes as silicates, aluminates, etc, and again noting the number of species/varieties occurring in each. A much neglected work and of importance for the author's

attempts to establish a rational system of chemical classification of minerals.

2297. GALTSOFF, P S The pearl oyster resources of Panama. *US Fish and Wildlife Service, Spec Scient Report of Fisheries*, 1950, no 28, 53 p. Not seen.

2298. GAMBARI, LUIGI

Mineralogia | Applicata | Alle Arti Ed Alle Industrie | Del Professore | Luigi Gambari | [orn rule] | Venezia-Trieste | Stabilimento Libr.Tip.Lit. di C.Coen editore | 1874

8°: X, 327, [1 blank]p. 17.7 x 11.2 cm(7 x 4 3/8 in). Cropped. Originally in print wrap? BM(NH).

Cont: 1/2tp; tp; dedic; pref; 9 chs; tabs: index blank p.

Economic mineralogy with special reference to the minerals of Italy. Ch 1, p 1-50, describes construction materials and includes various building stones, ornamental stones, and marbles. Ch 4, 175-213, is entirely devoted to gemstones, giving for same general remarks, properties, occurrences, uses, etc, and describing diamond, corundum, quartz, and other gemstones among those classed as "uncolored," but also those that are grouped together under similar-color classes. A synoptical table of gemstones vs properties & occurrences appears on p 204-13.

2299. GAMBOA, FERNANDO

Master Works | Of Mexican Art | from pre-columbian times | to the present | Los Angeles County Museum of Art | October 1963 - January 1964 [Los Angeles: by the museum, 1963]

"The selection of the works... writing and editing of all text. .. was done by Mr.Fernando Gamboa, director of the exhibition"(p [iv]).

Cementb: xvii (first 2 p blank), [7], 296 p; ca 179 photos. Bright red plasticized wrap; col photo on cover. 23.8 x 15.9 cm(9 3/8 x 6 1/4 in). Cut. JSL.

Among 2200 objects were carved jades, other carved stones, several mosaics, and gold jewelry. Due to use of fine print, the information is encyclopedic and valuable. Due to cement-backing, copies pull apart readily and many are sure to be thrown away as they disintegrate.

2300. GANGOLY, NARENDRANATH The Kohinoor. *Bengal: Past And Present*, Calcutta, vol 73, 1954-5, p 91-103; 74, 1956, 28-48. Not seen.

GANNETT, HENRY (1846-1914), editor

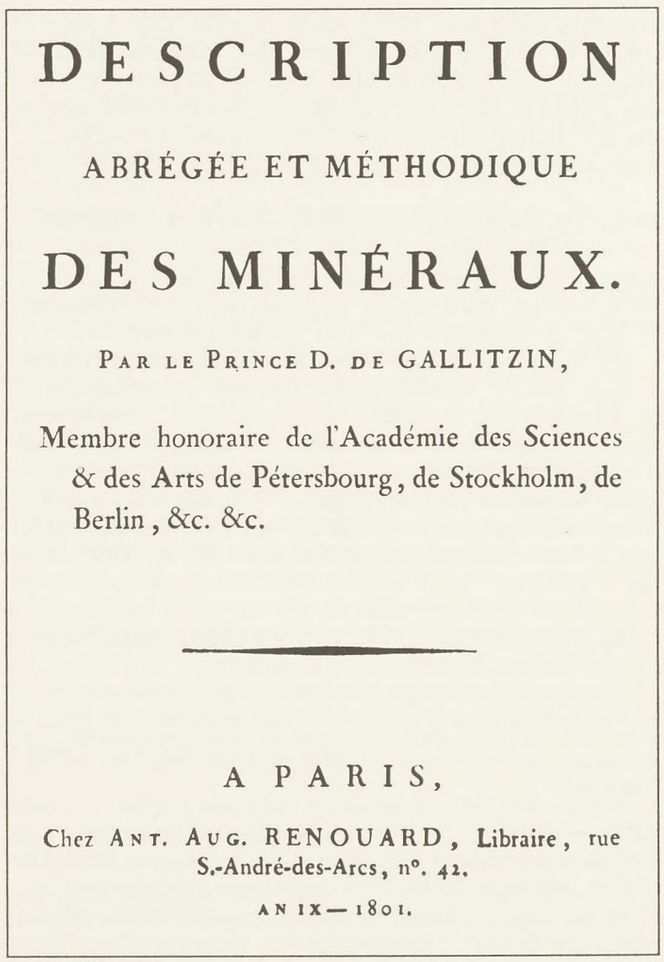
Amer geographer/topographer; b Bath, Maine; LLD Bowdoin Coll; topogr Hayden Survey 1872-9; geogr USGS 1882-1914; geogr for 10-12 US censuses; edit *Bull Amer Geogr Soc*; pres Nat Geogr Soc.

2301. -----1883

Report | On | The Building Stones | Of The | United States, | And | Statistics Of The Quarry Industry | For 1880. [to: Charles W.Seaton, Superintendent of Census, Washington, D.C., published 1883]

8°: xiii, [1 blank], 410 p; 58 pls(18 in heliotype of rock sects, 8 woodcuts of quarries, machines, etc; 32 col lithos of polished stone slabs, pls supplied with loose tissues); 6 fig. Black cloth, gilt. 28.7 x 22.7 cm (11 3/8 x 8 7/8 in). Cut. JSL.

Cont: added flyleaf + tp; tab cont; ill list; ltr; 8 chs; append; col pls; index + added flyleaf.



DESCRIPTION

ABRÉGÉE ET MÉTHODIQUE

DES MINÉRAUX.

PAR LE PRINCE D. DE GALLITZIN,

Membre honoraire de l'Académie des Sciences & des Arts de Pétersbourg, de Stockholm, de Berlin, &c. &c.

A PARIS,

Chez ANT. AUG. RENOUARD, Libraire, rue S.-André-des-Arcs, n°. 42.

AN IX — 1801.

2295. Titlepage of a mineralogical treatise with considerable information on gemstones written by a member of the Russian nobility

Gannett notes that the work was originally done by Dr George W Hawes, then curator of Mineralogy and Lithology, US National Museum, who could not finish it because of illness and death(1882). Chapters 1 & 2 on petrography by Hawes (methods of investigation) and G P Merrill(microscopic structure, as illustrated on heliotype pls). Ch 3 on chem composition by Fred P Dewey 4 & 5 on quarrying methods and stone production statistics. Chapter 6, by far the largest, describes regional quarries, while Ch 7 describes the uses of typical types of stone in several dozen cities, and Ch 8, by Alexis A Julien, discusses the durability or stones in New York city and vicinity. The appendix provides further statistics and information on certain foreign stones. A notable feature: the fine, hand-watercolored plates originally drawn by Henry J Morgan. Gives many localities for ornamental stones that are of interest to lapidaries. Scarce.

2302. GANS, JOHANN LUDWIG(fl 1620-1630), or GANZIUS

Joan. Lvdovici Gansii | D. Medici Franco- | Fvrtensis |

Corallorvm | Historia, | Qva Mirabilis Eo- | rvm Ortvs, Locvs Nata- | lis, varia genera, praeparationes Chymicae | quamplurimae, viresque eximiae | proponuntur. | [square woodcut vignette, a flaming mount; Latin motto] | Francofvrti, | Sumptibus Lvcae Iennis I. | Anno | [rule] | M.DC.XXX. [Frankfurt, 1630]

16°: [16], 174, [2 blank]p;):(^{8}, A-L^8; text engrav coral branch facing p 1; woodcut ch orns. 14.8 x 8.7 cm(5 7/8 x 3 3/8 in). Cropped. Ward & Carozzi, 1881; JSL, Agassiz III, 9.

Cont: tp; "In Malevolum;" dedic; testimonials; authors cited; tab cont; engrav ill with laudatory caption; 11 chs; blank f.

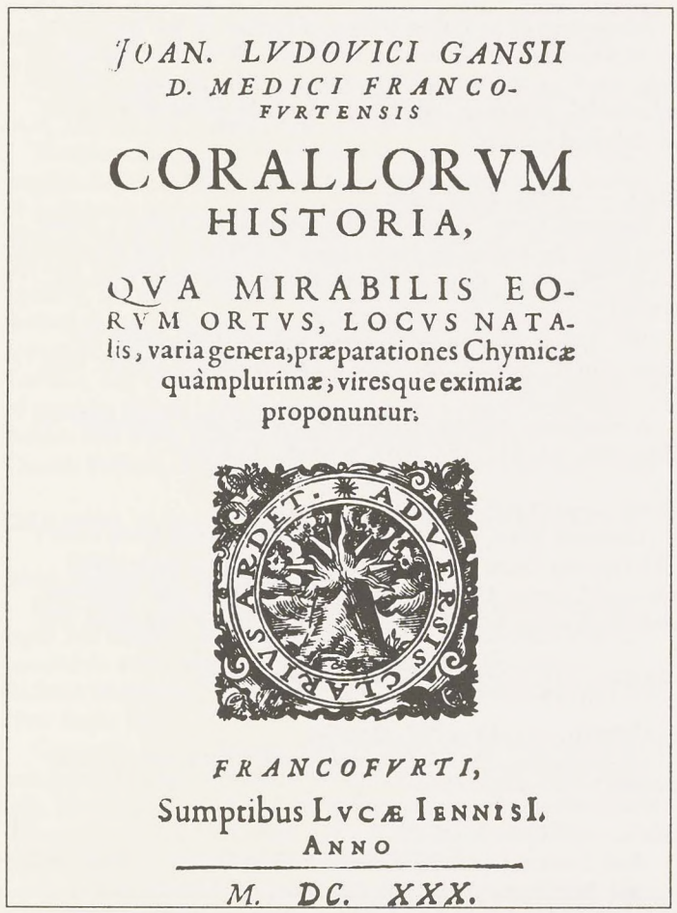
The earliest monograph on coral giving all that Gans could discover about it at the time of writing, and describing the many uses of coral in medicine, and with liberal injections of curious lore. The first chapter, a summary of older knowledge, quotes the Orphic poem on coral, in Greek, in its entirety, and follows this with several Latin translations to illustrate the divergent opinions on the meaning of certain chapters of the poem. This is followed by a commentary and pertinent quotation from Ovid's *Metamorphoses*, and a passage from Marbod's lapidary, plus more comments. The second chapter discusses the nomenclature of coral, its natural history, the forms in which found, sizes, values, and other topics. The third chapter describes varieties and colors, with most space devoted to the red, precious type. The remainder of the work consists of discussions and recipes for medicines in which coral is an important ingredient. The final chapter describes the powers, real and imagined, ascribed to coral and lists the ailments which are cured or suppressed by use of coral in medicines. Thorndike, *History of Magic*, 7, 253-4, noted that Gans' work "was largely chemical or alchemical and offered little that was new" and that "Ettmuller in 1665 said that Gans believed coral to be superior to all gems in its almost divine virtue, and further to be preferred to all herbs"(Michael Ettmuller, *Examen coraliorum tincturae*, Lipsiae, 1665, fol); it seems obvious that Thorndike did not examine Gans' work closely. Though based on the 1669 edition, the following remarks on this work appeared in *Phil Trans Roy Soc, Abridged*, 1809, 1, p 443. "In this history the author affirms to have digested both what has been delivered of corals, and what himself has observed and tried of that curious product of nature. His opinion is, that coral is formed out of a glutinous juice, which being turned into stone by a salt, abounding in it, rises up in the form of a shrub.* The places of the production of coral he names to be the Red Sea, the Persian Gulf, the Sicilian and Neapolitan shore... to this account he annexes various preparations made of them..." The * footnote states "This explanation of the formation of corals is very unsatisfactory. It is now known that coral-branches are the habitations of a peculiar tribe of polypous animals or zoophytes, and that the growth of these branches keeps pace with the growth and multiplication of the inhabitating animals."

2303. -----1669 Coralliorum historia. Editio novo ex variis auctoribus aucta. Francoforte, Hermann à Sande, 1669. De Golyer Coll, U of Okla; not seen. A vague ref gives another edition in 1666 but I have not been able to confirm.

2304. GANS, M H

M.H.Gans | Firmant "Premsela & Hamburger" | Juwelen | en | mensen | De geschiedenis van het bijou van 1400 tot 1900, | voornamelijk naar Nederlandse bronnen | [logo] | J.H. De Bussy, Amsterdam | 1961

8°: 479, [1 blank]p; col front glossy pl tip-in + 16 glossy col pls tip-in and bound-in + 4 photo pls bound-in (forming p 89-92); 203 b&w photos on 78 glossy f bound-in (forming p 205-360); 28 text fig(some printed in p ins). Blue, unfin cloth; gold cover title & spine title; col dj, resume. 23.9 x 15.6 cm(9 3/8 x 6 1/8 in). Cut. JSL.


IOAN. LVDOVICI GANSII
D. MEDICI FRANCO-
FVRTENSIS
CORALLORVM
HISTORIA,
QVA MIRABILIS EO-
RVM ORTVS, LOCVS NATA-
lis, varia genera, præparationes Chymicæ
quàmplurimæ, viresque eximiæ
proponuntur.
ARDET · ADVERSIS · CLARIVS
FRANCOFVRTI,
Sumptibus Lvcæ Iennis I.
ANNO
M. DC. XXX.

2302. Titlepage to Gans' history of coral, the first large treatise on this material to appear in print; there is an important discussion of the medicinal values ascribed to coral

Cont: 1/2tp; pl; tp; tab cont; dedic; fwd; 7 chs; refs(p 181-5); text index; ill list); pls; inventories list; 63 inventories; biblio(p 477-9, 84 entries); blank p.

Large, elaborate, and typographically complicated book on the development of jewelry in its many forms in Europe from 1400 to 1900, but with special emphasis on its manifestations in The Netherlands. Of the 7 chapters, the last, p 161-80 is especially interesting because it treats the history of the diamond in Holland from its earliest use to the development of the modern diamond industry with remarks on development of cutting, styles of cut, and some famous diamonds that have been cut in Holland. A lavishly illustrated work and esteemed highly today as a basic reference. Uncommon.

2305. GARAVINI DI TURNO, SADIO Lolomai. Italy, Casa Editore Valentino Bompiani, 1962. Not seen.

2306. -----1963, London

Diamond River | [rule] | By | Sadio Garavini Di Turno | Translated From The Italian | By | Peter Green | [logo] | Hamish Hamilton | London [1963]

16°: [7], [1 blank], 208 p (blank f at each end serve as fly-leaves & are integral with text gatherings); tip-in glossy photo front pl; sketch map. Magenta-pink cloth type paper bds, gold lett & logo on spine; col dj, resume. 21.6 x 13.7 cm(8 1/2 x 5 3/8 in). Cut. Te stained blue. 21s. JSL.

Adventures of an Italian soldier-of-fortune in the back country of Venezuela while seeking diamonds. Written in sensational style, much on the "colorful" natives and their customs, author's experiences, including sexual, and very little useful information on diamond mining.

2307. -----1963, New York

Diamond River | [orn] | Sadio Garavini Di Turno | Translated from the Italian by Peter Green | A Helen And Kurt Wolff Book | Harcourt, Brace & World, Inc. | New York | [logo] [1963]

16°: 186 p; dk blue cloth, green leaf on cover, green lett spine. Col dj; resume, vita. 20.3 x 13.6 cm(8 x 5 3/8 in). Cut. LC 63-S082. JSL.

A condensed version appeared under the title "diamonds" in *True Mag*, 44, 313, Jun 1963, p 58-60, 122-35.

2308. -----196-(?), London

Diamond River |...| Peter Green | The Travel Book Club | 121 Charing Cross Road | London W.C.2 [nd, post 1963]

Like the London 1963 edit but omits front pl; pale turquoise cloth type paper bds; black spine title; col dj. P size same. 21s.

GARBE, RICHARD von, see NARAHARI

GARBOE, HANS AXEL (1886-)

Danish naturalist, MD; *Dansk Biografisk Leksikon*, 7, 1935, 608; the treatise following was his doctoral dissert.

2309. -----1915

Axel Garboe | [rule] | Kulturhistoriske Studier | Over Aedelstene | Med Saerligt Henblik Paa Det | 17.Aarhundrede. | [logo] | 1915. | København Og Kristiania. | Gyldendalske Boghandel. | Nordisk Forlag.

8°: XV, 274 p. Pale gray wrap, black title on cover & spine. 24 x 15.5 cm(9 1/2 x 6 1/8 in). Uncut. JSL.

Cont: 1/2tp; tp; note; dedic; tab cont; fwd; 13 chs; stones index; proper names index; errata.

Very detailed, richly annotated dissertation on the cultural history of gemstones with special emphasis on the 17th century. The first part of 8 chapters treats gemstones, minerals, and other substances within the scope of this work as they were employed in cultures outside Denmark while the second part of 5 chapters deals with those known to have been employed in Denmark. The purpose is to especially examine beliefs held with remarkable persistence into modern times upon the efficacy of gemstones as used in medicines and drugs, or as preventive or curative agents, and as amulets. Garboe suggests that the cause of such fixation lies in an unquestioning respect for authority whether emanating from a person or from a written document. He also notes contributing factors as lack of scientific means required to sytematically experiment with the substances concerned to determine if their virtues actually exist. The belief in the medicinal powers of gemstones was not effectively dispelled until the 18th century. Some indication of Garboe's thoroughness in preparation of this work can be gained from the names index wherein will be found virtually every important authority of the past who contributed in some way to the literature of gemstone curious lore.

2310. -----1947 Thomas Bartholin og ravstudiet i Danmark. Et blad af Mineralogisk museums historie. København:

AXEL GARBOE

KULTURHISTORISKE STUDIER OVER ÆDELSTENE

MED SÆRLIGT HENBLIK PAA DET 17. AARHUNDREDE.



1915.
KØBENHAVN OG KRISTIANIA.
GYLDENDALSKE BOGHANDEL.
NORDISK FORLAG.

2309. Cultural history of gemstones, especially in the 17th century

Fr.Bagges kgl. Hofbogtrykkeri, 1947. P [97]-116, ill, 24 cm. [*Museum de minéralogie et de géologie de l'Université de Copenhague. Miscellanées*, No.14.] "Saertrvk af *Meddelser fra Dansk geologisk Foreening*, bd 11, h l." GS 4S-291. Not seen. On Thomas Bartholin (1616-1680) and his amber studies.

2311. GARDNER, F L On the hidden properties of gems. London: Woman's Printing Society, Ltd., 1892, 16 p, 8°. Not seen; gems from the theosophical viewpoint.

GARNIER, JULES(1839-1904) & GARNIER, PASCAL, *son* (1872-1898)

J G Fr mining eng, metallurgist, inventor, prospector, writer; stud St Etienne (Loire) 1860-62; geol explor in Caledonia; ret to France 1867; in Franco-Pruss War; other travels to Ukraine, Colorado, Transvaal, Canada, Australia, New Zealand. DBF, 15, 509-10, 515.

2312. -----1896

L'Or Et Le Diamant | Au | Transvaal Et Au Cap | Par | Jules Garnier | Avec Le Concours De | Pascal Garnier, explorateur au Transvaal | [rule] | Extrait Des Mémoires De La Société Des Ingénieurs Civils De France | (Bulletin de mars 1896) |

[rule] | Paris | Librairie Polytechnique, Baudry Et Cie, Éditeurs | 15, Rue Des Saints-Pères, 15 | Maison A Liège, 21, Rue De La Régence | [rule] | 1896 | Tous droits reserves.

Originally publ: *Mémoires*, 5me Serie, 13me Vol.

8°: 33, [1 blank], fold map bound-in at end; 15 fig. Pale gray print wrap. 24 x 15.7 cm(9 1/2 x 6 1/8 in). Cut. JSL.

Offers suggestions and speculations on the genesis of gold and diamond deposits in the Transvaal and the Cape Province of South Africa. In the case of diamond it is suggested that carbon-bearing alluvial deposits buried beneath very thick overburdens of succeeding alluvia would be subjected to sufficient pressure to create diamonds and that such pressure would force the metamorphosed rocks upward to form pipe bodies.

2313. GARNIER, JULES Gold and diamonds in the Transvaal and the Cape, read August 10th, 1896, by M.Jules Garnier, being extracts from the *memoirs* of *La Société des Ingénieurs Civils de France*, of March, 1896, and translated by Chas. de Sarigny, Johannesburg. *Trans Geol Soc South Afr*, 2, nos 1-11, Part 7, p 91- 103, with fold insert of Fig 1-13; Part 8, no 1, p 109-120. JSL. The article is is a much condensed version of the previous work of same date.

GAROFALO, BIAGO, see CARYOPHILUS, BLASIUS

2314. GARRETT, AUGUSTA BROWNE

The | Precious Stones | Of The | Heavenly Foundations. | With Illustrative Selections in Prose and Verse. | By | Augusta Browne Garrett, | Author Of Musical Compositions, "Hamilton The Young | Artist," Etc. Etc. | [rule] | "And the foundations of the wall of the city were garnished with all | Manner of precious stones." | [rule] | New York: | Sheldon & Company. | 1859.

12°: [blank]f + xv, [1 blank]p + p 13-328 + [4 advert]p + [blank]f. Front steel engrav with tissue + 3 others with guards; p xi-xii reproduces a musical composition. V dk blue full leather, elaborately blind embossed on both covers; central gilt green panel bearing gilt title both covers; bevel bds; similar blind stampings & gilt lett on spine, less green panel. Pale yellow endp. 18.3 x 12.5 cm(7 1/4 x 4 7/8 in). Aeg. JSL; Allibone, *Suppl.*

Cont: blank f; 1/2tp; pl; tp; publ data; dedic; tab cont; music; introd; text; advert; blank f.

As with other Biblical-gemological books, the title promiseth much but delivereth little. Using the foundation stones of the New Jerusalem as her own basis, Garrett provides meager, largely lorical information on jasper, sapphire, chalcedony, sardonyx, sardius, chrysolite, beryl, topaz, chrysoprasus, jacinth, and amethyst. These are followed by prose selections and verses alluded to in the title but not really connected to the stones themselves. The binding is splendid.

2315. GARRETT, ROBERT MAX

Precious Stones | In | Old English Literature | By | Dr.Robert Max Garrett. | [orn rule] | Leipzig. | A.Deichert'sche Verlagsbuchhandlung Nachf. | (Georg Böhme). | 1909.

"Münchener Beitrage zur romanischen und englischen Philologie. Herausgegeben von H.Breymann und J.Schick. XLVII."

8°: XIV, 91, [1]p. Pale blue wrap, cover title, other publ bks other surfaces. 23.3 x 15 cm(9 1/8 x 5 7/8 in). Uncut. LC 9-29178. JSL.

Cont: blank p; ser tp; tp; publ data; dedic; tab cont; biblio(p ix-iv, 119 entries); introd; text; stones lists(2); print note.

Examines knowledge of precious stones as set forth in Old English literature. The introduction briefly discusses the history of gemstones and associated literature, identifies passages in the Bible in which they are mentioned, then takes up the writings of the Old English period, including Latin works, an Old English lapidary, the Glosses, and several examples of poetry and prose. Several dozen gemstones are identified and discussed as they appear in the writings of Aldhelm, Bede, Alcuin, Boniface, Tatwine, and others, and of whom Garrett states "the knowledge of precious stones ... is, for the most part, gleaned from Isidore, Solinus and Pliny, with occasional contributions from the Church Fathers, as S.Gregory, S.Augustine and S.Jerome." Rare.

GARSIDE, A, see JEWELRY ANCIENT TO MODERN

2316. GARVIN, RICHARD M

[orn rule] | The Crystal | Skull | The story of the mystery, myth and magic | of the Mitchell-Hedges crystal skull dis- | covered in a lost Mayan city during a search | for Atlantis | Richard M.Garvin | Doubleday & Company, Inc., Garden City, New York, 1973

Cementb: [9], [1 blank], 108, [2 blank]p; 35 photos on 12 f not includ in pag (between p 28-9). Dk blue cloth, silver spine title. Black dj, col photo of skull; flap resume, vita, author portr. Blue endp. 20.8 x 13.8 cm(8 1/4 x 5 3/8 in). Cut. ISBN 0-385-09456-6; LC 72-84912. $6.95. JSL.

Cont: 1/2tp; other bks of author; tp; publ data; dedic; tab cont; blank p; text tp; 10 chs; notes; blank f.

The story of this splendidly carved & polished rock crystal skull with speculations as to its significance. It is a human skull, natural-size, with a separate lower jawbone, and measuring approximately 12.5 x 17.7 x 12.5 cm (5 x 7 x 5 in) and weighing 5.2 kg or 11 pounds 7 ounces. It was found by Anna Le Guillan Mitchell-Hedges, adopted daughter of explorer F A Mitchell-Hedges, in the Mayan city ruin of Lubaantún, British Honduras, in 1927. Similar skulls in other museums are depicted and compared and speculations that the present skull is a modern fake are dismissed. There are numerous photographs of the skull and the others mentioned.

2317. GASCÓN Y MIRAMÓN, ANTONIO De vulgarización. Los diamantes. Madrid, Ricardo Rojas, 1905. 48 p, 20 cm. Biblioteca Nacional V/C^a^ 233-22. Not seen.

2318. GASCUEL, M Les gisements diamantifères de la region sud-est de l'ile de Borneo(Possession hollandaise). *Ann des Mines ou Recueil de Mém*, etc., Paris, ser 9, vol 2, 1901, p 5-23, pl. Not seen.

2319. GATES, H L

The | Mystery of The | Hope Diamond | As Set Down By | H.L.Gates | Author Of "Ravished Armenia," "The Auction Of Souls," Etc.Etc. | [rule] | From the Personal Narrative of | Lady Francis Hope | (May Yohe) | [rule] | Fully Illustrated

From The Photoplay | [rule] | 1921 | International Copyright Bureau | New York

16°: 255 p + [1 advert] p; front photo pl on a glossy f + 11 others, all bound-in. Col glossy paper wrap, title in blue on cover with Hope diamond, set in an oval jewel, and an Indian goddess in orange forming the background; title, rules, price on spine; chronology of the Hope diamond on back cover. 17.9 x 12.7 cm(7 x 5 in). Cut. Paper very badly browned, brittle. $.75; also cloth @ $1.75. JSL.

Cont: pl; tp; publ data; tab cont; 2 books; advert.

Lurid account, tenuously based on the adventures of Tavernier in India, presumably at the time when he "stole" the blue diamond which is now believed to have been the parent stone of the Hope. This is the first book of the text and is followed by the work that purports to be the personal narrative of celebrated English musical comedy star May Yohe, who married Lord Francis Hope and thus became an owner of the diamond, which bears her husband's name, after his death. Here are related the various episodes of ill-fortune which befell previous owners of the diamond, and for good measure, the affair of Marie Antoinette's diamond necklace. This part entitled "What Came After as told by May Yohe(Lady Francis Hope)" appears to be a first-hand account but there is no evidence to support this conclusion, and thus the content may be unreliable as interesting as it is. The photographs are from a cinema which also involves a large diamond and the ill-luck that followed its several owners. This work is rare, and the paperback especially so because of its rapid deterioration of paper; perhaps the clothbound version is made of better stuff, but I have not seen a copy.

2320. GATTY, CHARLES TINDAL

Catalogue | Of The | Engraved Gems And Rings | In The Collection Of | Joseph Mayer, F.S.A. | By | Charles Tindal Gatty | [rule] | [Mayer monogram] | [rule] | Printed For | Joseph Mayer | By | Bradbury, Agnew, & Co., Whitefriars, London. | [rule] | 1879.

8°: xv, [1 blank], 120 p; actual photo front pl, cut-out & mounted, with tissue, tip-in. Brown cloth, blind frames on covers; gold title & monogram on front; other surfaces plain. 22.1 x 14.4 cm(8 5/8 x 5 5/8 in). Uncut. Fe untrimmed. Hand-laid watermarked paper. USGS Kunz Coll, 34-460; JSL.

Cont: 1/2tp; pl; tp; print data; pref; introd; catalog.

"Most of the gems... were obtained... from the Hertz collection; a few came from the collection of Mr.Philip Henry Hope, and the remaining specimens from a variety of sources during the last fifty years." The preface indicates provenance as above, and remarks on authentication, while the introduction is a short essay on gem engraving in general. The catalog describes the gems classed according to countries of origin and subjects, giving identification, type gem, material, and dimensions, each class prefaced by remarks. There are 949 numbers. This work, like some others, was privately published by Mayer. See also under his name.

GAUBERT, MARIE BENOIT PAUL(1865-)

Fr mineralogist, crystallographer; PhD (zool) Paris, 1892; studied under A Milne-Edwards & A Lacroix; prof mineral School of Mines, Paris 1893-1932; spec in study liquid crystals. Pogg 6, 857.

2321. -----1890(?)

N° 47 | Bibliothèque Scientifique | Des Ecoles & Des Familles | 15 Centimes | Directeur | Gustave Philippon | Docteur ès sciences | Les Pierres Précieuses | Par | Paul Gaubert | Docteur ès sciences. | Secrètaire de la Société de Minéralogie de France. | Henri Gautier, editeur, 55 Quai des G^{ds} Augustins. Paris [nd, ca 1890: cover title only]

Centerstapled: 36 p; 11 fig. Tan wrap, printed in blue, elaborate Art Nouveau decorations. 17.9 x 12.2 cm(7 1/8 x 4 1/4 in). Cut.USGS Kunz Coll, GS 34-252. Cont: cover title; inside title; introd; 3 chs. Popular treatment, very generalized, and despite authority of writer adding little to the useful gemological literature.

2322. GAUSE, HANS

Dr.Rer.Nat. Hans Gause | Glas Und Diamant | [logo] | Urania-Verlag | Verlag für Populärwissenschaftliche Literatur | Leipzig/Jena [1958]

8°:178, [2]p; 34 fig. Glossy black paper over bds; white & pale blue lett & designs on cover; pale gray spine cloth, black title. 16.9 x 11.8 cm (6 5/8 x 4 5/8 in). Cut. Dm 2.80. JSL.

Cont: 1/2tp; tp; publ data; tab cont; introd; text; gloss; biblio; advert.

Curious but interesting juxtaposition of subjects, one on the facts concerning the nature of glass & technology of same, the other a chapter, p 104-69, on diamond giving occurrences, properties, cutting, hardness, and technology.

2323. GAUTIERI, GIUSEPPE(1769-1833) Untersuchung über die Entstehung, Bildung und den Bau des Chalcedons und der mit ihm verwandten Steinarten, insbesondere aber des chalcedons von Tresztya in Siebenbürgen. Jena, 1800, 8°: xvii, 360p, pl. Not seen: BM(NH) Cat. Gautieri was MD but also a naturalist and mineralogist; much traveled in Europe. *Biogr Univ* 65, 182-4; Agassiz III, 15.

GAVARNI(Pseud of SULPICE HIPPOLYTE GUILLAUME CHEVALIER(1804-1866), MÉRY, FRANÇOIS JOSEPH PIERRE AGNÈS(1797-1865) & FOELIX, Comte de(pseud of RABAN, LOUIS FRANÇOIS(1795-1870))

Gavarni was a popular French caricaturist & artist; began issue of the satirical journal *Les Gens du Monde* in 1835 in which he presented spirited drawings of Parisian society, many reappearing in the journal *Charivari* which owed much of its success to them. *Thomas Univ Dict Biogr Myth* 1878. Méry was a Fr litterateur, poet, & writer of romances & dramas.

2324. -----1850?

Le | Joyaux | Fantaisie | Par Gavarni | Texte | Par Méry | Minéralogie Des Dames Par Le Cte Foelix | [orn rule] | Paris | G.De Gonet, Éditeur, 6, Rue Des Beaux-Arts. | [left, in column:] Martinon, Libraire | rue du Coq-Saint-Honoré, 4 [vertical orn] [on right, in column:] Madame Veuve Janet, | rue Saint-Jacques, 59 | A Leipzig, Chez Charles Twietmeyer. [nd, ca 1860?]

4°: blank f(flyleaf) + [3], [1 blank], 316 p + [blank f (flyleaf); tip-in steel engrav front pl, part hand-col, tissue guard + 16 similar in text, each with tissue, tip-ins, but printed on white paper die-cut to resemble lace with the latter forming borders around central steel-engravs; subj of each pl in small oval panel

below engrav; each lace cut-out is mounted on another leaf, pink under the lace but plain white on reverse; small areas in each pl hand-col. Elaborately embossed dk blue cloth, title in oval cover frame enclosing a picture of books, cloths, feather, fan, & jewel, and with contrasting color cut-outs mounted on basic cloth in blue, green, etc. Spine also elaborately stamped, with similar contrasting color cut-outs. Similar vignette back cover. Bright yellow, polished endp. 26.6 x 18 cm(10 1/2 x 7 in). Aeg. Also issued in fascicules, print wrap, uncut. USGS Kunz Coll, GS 34-461; JSL.

Cont: blank added flyleaf; 1/2tp; print data; pl; tn; text; tab cont; placement of engravs & publ data.

A fine example of the ornate cover decoration so popular during the Victorian era and outstanding for the use of lace-paper borders on the plates. The latter are all highly romanticized engravings by Gavarni. The text, in two books, treats the romance of jewels in the first and the mineralogy of gemstones in the second. The first part understandably imparts little in the way of scientific information but instead attempts to evoke in the reader visions of gems and jewels and their lore with amusement mainly in mind, but the second book does devote itself to gemological matters. It is simply written, and addressed to ladies to whom this book was aimed. We find herein brief statements on the "molecules" of minerals, growth of crystals, modes of mineral formation, physical and optical properties, chemistry, and gemstone descriptions. Among the latter are the usual major species but also some lesser gemstones as quartz varieties, garnet, and strangely, stalactites and stalagmites, and also precious metals, and again, strangely, such metals as copper, mercury, tin, and lead! There is a large section on diamond, and, with pearl and coral, this section ends the text.

2325. -----1850? Les parures; fantaisie par Gavarni. Texte par Méry. Histoire de la mode par le Cte Foelix [*pseud.*] Paris, C.de Gonet [etc., 1850?]. 2 p, f, 300 p., col front, col pls. 28 cm. USGS Kunz Coll, GS 34-1000. Not seen.

GAVER, F van, see DARBOUX, G, et al

GAVRILOV, A P, see KIEVLENKO, E Y, et al

GAYER, K, see BIRNBAUM, C

GAYU, see HAÜY

2326. GEBHART, HANS

Gemmen Und Kameen | Von | Dr.Hans Gebhart | Mit 255 Abbildungen Im Text | [logo] | Berlin W 62 | Richard Carl Schmidt & Co. | 1925

Facing tp: "Bibliothek Für Kunst- Und | Antiquitäten-Sammler | Band XXVII | Gemmen Und Kameen | ... "

8°: VIII, 232 p; 255 text photos & diagrams of gems. Orange, unfin cloth, photo of oval gem in sepia cut-out & mounted on cover with series & book titles in brown in ruled frame; brown lett & series no on spine. Pale gray-brown charcoal-type endp. 23.8 x 15.7 cm(9 3/8 x 6 1/8 in). Mk 10. JSL.

Cont: 1/2tp; ser tp; tp; publ data; fwd; tab cont; text; index of artists & signatures; biblio(p 226-8, 70 entries); advert(from p 229 to end).

A highly regarded and frequently consulted work on engraved gems. The first ten pages deal with the art of engraving and provide definitions of appertaining terms, derivations of certain terms, brief descriptions of gem materials, technique of engraving, casts, use of metals, shell, and other materials, the method of "burning," ie, heat-treatment, to improve color, and other topics. The text is a chronological survey of the development of the art and the gems characteristic of various periods and cultures, commencing with Babylonia and carried into modern times. At the end of this part are brief remarks on falsifications and copies. The valuable index of artists and their signatures includes several hundred entries, while the bibliography includes most of the important works on engraved gems. For comments on Gebhart and his work, see Zazoff's *Gemmensammler*, 1983, p 237.

2327. GEERTS, ANTONIUS JOHANNES CORNELIUS(d 1883)

Les Produits | De La Nature | Japonaise Et Chinoise | Comprenant | La Dénomination, L'Histoire Et Les Applications Aux Arts, A L'Industrie, A | L'Économie, A La Médecine, Etc. | Des Substances Qui Dérivent Des Trois Règnes De La Nature Et Qui | Sont Employées Par Les Japonais Et Les Chinois | Par | A.J.C.Geerts | [rule] | Partie Inorganique Et Minéralogique | Contenant | La Description Des Minéraux Et Des Substances Qui Dérivent Du | Règne Minéral | [orn rule] | Yokohama | C.Lévy, Imprimeur-Éditeur | [rule] | 1878 | Propriété De L'Éditeur | Droits de traduction et de reproduction réservés.

Above title for first part, second below; facing title in Japanese.

8°: [7], [1 blank], XI, [1 blank], 294, [1], [1 blank]p; 3 fold tip-in tabs; 17 woodcut pls (Pl I-IV in text, remainder at end); part col fold map of Japan. Pale grayish-green wrap, cover & spine titles; expos award medals back cover. 24 x 15.5. cm(9 1/2 x 6 1/8 in). Uncut. LC 1-F-3211. JSL.

Cont: 1/2tp; print data; Japanese tp; tp; dedic; pref; abbrevs of cited journals; introd; orthography system; biblios(p 72-80, European, 140 entries; 81-4, Japanese & Chinese, 50); 2 fold tabs; text; pls & fold map.

The first of two separately published parts dealing with the mineral products employed by the Japanese and Chinese in older, traditional arts and industries; they are considered highly important sources of authentic information and were much referenced in later publications. In the large section on carbon, diamond finds a prominent place on pages 201-3, and here Geerts gives its names in phonetic equivalents as well as in the native ideographs and then cites authorities for same and giving a discussion of the diamond and its uses by the Japanese and Chinese. In similar manner, under the heading of "Silicium," he gives crystalline & cryptocrystalline varieties of quartz, p 241-7, including rock crystal, sagenite, smoky quartz, amethyst, rose quartz, citrine, cat's-eye quartz, aventurine, and others, as well as numerous varieties of chalcedony, and at the end, includes opal. An appendix to this section, p 272-94, describes prehistoric stone implements and weapon points, including objects meant for personal adornment or as talismans. The plates depict recovery of arsenic, charcoal-burning, making soot, weapon points, implements, tools, and other stone objects. The last plate is a part-colored, folding map of Japan showing the major mining districts with colored spots indicating the mineral obtained.

2328. -----1883, 2nd part

Les Produits |...| Regne Mineral. | 2me Partie, | [logo] | Yokohama | C.Lévy & S.Salabelle, Imprimeurs-Éditeurs | [rule] | 1883 |...

8°: [4]p + p [295], 296-662; pls 18-30; 2 fold tabs. Pink print wrap.

Cont: 1/2tp; print data; Japanese tp; tp; text.

This part contains alabaster-gypsum, p 329; marbles, 332-5; ruby, 358-62; obsidian, 413-4; garnets, 421-4; tourmaline, 424-5; serpentines and steatites, 434-40 and includes agalmatolite; meerschaum, 441, and ophitic serpentines, 441-5. In the section entitled "Pierres précieuses," 452-82, appear discussions of jade varieties, and including properties, use in medicines, etc, also red coral, several uncertainly identified stones, topaz, emerald, aquamarine, zircon, amd sapphire. This work is cited and commented upon by Laufer in his *Sino-Iranica*, 1919, and his treatises on turquoise and diamond, which see, also by F De Mély & M H Courcel, *Les Lapidaires de l'Antiquité et du Moyen Age*, 1, Lapidaires Chinois, especially in connection with a Chinese-Japanese encyclopedia containing a lapidary, reproduced in its original form in that volume along with translation and commentaries. Gemstones are discussed on p 1-150 with notes, including citatations from Geerts, p 178-88.

2329. GEIGER, MALACHIAS(fl 17th c)

Vnio Bauaria | Margaritologia | Sive | Dissertatio De Margaritis | in quâ, post uaria ad Margaritas perti | nentia, demonstratur, Margaritas Bauaricas | in usu medicinali, uiribus et effectibus | aequiualere Orientalibus | et Occidentalibus. | Elaborata | Per | Malachiam Geigervm | Medico Chirurgum | Monachij | Anno M.DC.XXXVII | Ex Pace Vbertas

Munich: Formis Cornelii Leysserii, 1637 Full engrav tp, columned doorway, woman's fig in same with large shell in center bearing title.

8°: [12], 79, [1], [4 blank]p; A-F^{8}; 3 fold engrav pls bound-in; woodcut publ logo last p. 16.2 x 10.2 cm(6 3/8 x 4 in). Uncut. USGS Kunz Coll, GS 34-215.

Cont: engrav tp; dedic; pref; laud; tab cont; 8 parts; colophon; 4 blank p.

A treatise on the freshwater pearly mollusks and their pearls as found in the waters of Bavaria, with localities and the names of the shells given, but including salt as well as freshwater species. One of the plates shows such shells, including a specimen of the pearly nautilus. There is a discussion of the place within the shell where pearls occur and the nature of nacre. Geiger carefully explains the methods and times of pearl fishing and how wading and diving are employed to discover and bring up the mollusks from their beds. Two folding plates, delightfully crude in their execution, depict fishing activities and the instruments for opening shells and removing pearls. The text also discusses the medicinal uses of pearls, especially those of Bavaria, which Geiger claims are equally as effective as pearl from the Orient or the Occident. Various medicines utilizing pearl are described and the ailments for which they are effective listed. A rare work. See H Stadler, "Malachias Geiger's Schrift ueber die bayerischen Flussperlen," *Fortschr Kult u Lit Geschichte Bayerns*, München, 5, 1898, p 163-90; also biogr notes *Nouv Biogr Generale*, 19, 815.

2330. GELDART, GRAHAM

Hand | Lapidary | Craft | B T Batsford Ltd London [1980]

8°: 144 p, 100 photos, 42 diagrams(line drawings); 4 col photos on 2 glossy f bound-in but not includ in pag. Dk blue cloth-type paper over bds. Pale gray-green endp. Col photo dj, resume, vita. 24.8 x 18.5 cm(9 3/4 x 7 1/4 in). Cut. ISBN 0 7134 1536 3. £ 6.95. JSL.

Cont: 1/2tp; tp; dedic & publ data; tab cont; quote; introd; 14 chs; gloss; biblio(p 139, 21 entries); supplier list; society list; index.

How to make simple devices for rubbing and polishing cabochons, flats, and faceted gems, with the idea of avoiding the cost and space required by machine-driven devices that perform the same services. Rev: *J Gemm*, 17, 3, 1980, 197; *Gems*, 13, 1, 1981, 44.

2331. GELISSEN, C

Ch: Gelissen | [orn rule] | Monografia Del Diamante | [orn] | Napoli | Riccardo Marghieri Di Gius: Editore Via Roma 140 | 1882.

8°: 120 p; fold litho pl bound-in at end. Orig in wrap? 22 x 15 cm (8 3/4 x 5 7/8 in). Cut.

Cont: tp; dedic; tab cont; 5 chs.

An elementary, popular treatise on the diamond with chapters dealing with physical properties, characteristics of genuine diamonds as compared to the artificial, chemical nature of diamond as compared to other forms of carbon, a mention of the attempted synthesis by Despretz [César Mansuète, 1792-1863], the famous French scientist, diamond mines and mining, recovery practises, cutting diamonds (Ch 4, but with erroneous heading of "Minière Diamantifère"), and the diamond trade and some famous diamonds.

2332. GELLER, S Crystal chemistry of the garnets. *Zs Krist*, 125, 1967, p 1-47, 8 fig. JSL. Structure, cations & site preferences, analyses, conclusions.

2333. GEMHUNTING ATLAS OF AUSTRALIA

Gemhunting Atlas | Of Australia | [tab cont in column on right; on left:] Published by Paul Hamlyn Pty. Ltd. | Map & Guide Division | 176 South Creek Road, Dee Why West. | New South Wales. 2099 | First Published 1973 |...

8°: [84]f of col photos of mineral specimens, col geol maps and road maps. Col glossy paper over bds; colorless plastic slip-on dj. 25.5 x 19.1 cm(10 1/8 x 7 1/2 in). Cut. ISBN 0 600 07146 4. Aus $3.95. JSL.

Lists a few minerals, with color plates, then provides 30 geological maps with mines, prospects, gem-hunting areas indicated, and many road maps with an index of towns for each state. The geological maps are slight modifications of those in B Myatt's *Australian and New Zealand Gemstones*, 1972 of the same publisher. Rev *Austral Gemm*, 12, 1, 1974, 21; *J Gemm*, 14, 4, 1974, 197.

2334. GEMMA, AURELIUS Unterricht von Edelgesteinen... Hanover, 1704. Not seen.

2335. -----1719, new edit

Neuer | Vollkomner Natur= | und | Kunstmässiger Unterricht | von | Edelgesteinen, | darin derselben Wachsthum, Tugend, | Farbe, Härte, Schwere, Bildung, wie | auch die Steinmachung mit vielen fürtrefflichen | Experimentis dargethan; | Imgleichen | wie dieselbigen zu taxiren, zu schneiden, | zu

poliren, die Pitschier zu schneiden, wie | auch Glass zu schleiffen, die Doubletten zu machen, | die gemachten und falschen Steine zu erkennen, und | dergleichen bisshero heimlich gehaltene Physico- | Mechanico-curiosa treulich entdecket, | und zugleich | Alle Instrumenta ausführhhrlich beschreiben, | und endlich zum Beschlusse die rechte Arten | ein Indianisches Lackwerck zu verfertigen | angefüget werden, | durch | Aurelium Gemmam. | [rule] | Zu finden bey Nicolaus Förstern, | Hoff=Buch=Händlern in Hanover, | Anno 1719. [title in red & black]

8°: [4], 121, [3 blank]p;)(², A-G⁸, H⁴. 16.4 x 10.2 cm(6 1/2 x 4 in). Cropped. USGS Kunz Coll, GS 34-328. JSL.

Cont: tp; tab cont; 9 chs; 3 blank p.

An extremely rare work on gemstones that emphasizes practical aspects of lapidary treatment and other matters that would be of value to the tradesman and jewelry maker. It is further remarkable for including a chapter on the methods by which Indian lacquerware is manufactured, which of course has nothing to do with gems. Gemma discusses the origin of gemstones in the first chapter, considering at length Robert Boyle's statements on same as given in his *Exercitatio de Origine et Viribus Gemmarum*, supporting some and disputing others. Other citations and quotes from authorities appear throughout the text. Other topics treated include magical & curative powers of gemstones, physical properties, color and its enhancement by use of foils, the pricing of gems, manufacture of doublets, artificially colored and imitation gems, and substitutes. One chapter is devoted to "figures" in stones, that is, clouds or swarms of inclusions, bandings, and other markings which resemble human or other figures, shells in fossiliferous limestones, insects in amber, and stars in star stones. All of these are treated soberly as natural manifestations and are not thought to be magical or miraculous in nature as had been done not too long before Gemma's time. Another chapter treats petrification due to mineralized waters. From the practical viewpoint, this work is especially rich in details on the cutting of gemstones and the equipment required to do so, and including the art of gem engraving. Gem cutting equipment then in use is described in minute detail as well as a process for classifying raw tripoli to make it useful as a polishing agent. In all respects this admirable, reasoned work deserves greater recognition.

Neuer
Vollkommner Natur-
und
Kunſtmäßiger Unterricht
von
Edelgeſteinen,
darin derſelben Wachsthum, Tugend,
Farbe, Härte, Schwere, Bildung, wie
auch die Steinmachung mit vielen fürtrefflichen
Experimentis dargethan;
Jngleichen
wie dieſelbigen zu taxiren, zu ſchneiden,
zu poliren, die Pitſchier zu ſchneiden, wie
auch Glaß zu ſchleiffen, die Doubletten zu machen,
die gemachten und falſchen Steine zu erkennen, und
dergleichen bißhero heimlich gehaltene Phyſico-
Mechanico-curioſa treulich entdecket,
und zugleich
Alle Inſtrumenta ausführlich beſchrieben,
und endlich zum Beſchluſſe die rechte Arten
ein Jndianiſches Lackwerck zu verfertigen
angefüget werden,
durch
AURELIUM GEMMAM.
Zu finden bey Nicolaus Förſtern,
Hoff-Buch-Händlern in Hanover,
Anno 1719.

2335. Titlepage to Aurelius Gemma's treatise on all aspects of gemstones and emphasizing lapidary treatments

2336. GEMME, PIERRE

Pierre Gemme | [rule] | Le Diamant | dans le Monde | [rule] | 7ᵐᵉ Série - N° 81 | [rule] | Office De Publicité, S.C. | Anc.Établiss. J. Lebegue & Cⁱᵉ Éditeurs | Rue Neuve, 36, Bruxelles | [rule] | 1947 ["Collection Nationale"]

8°: 82, [2 advert]p; 4 photos on 1 tip-in glossy f; 2 tabs. Bright red paper wrap, black title in white block on cover; black spine title. 19.4 x 12.8 cm(7 5/8 x 5 in). Cut. JSL.

Cont: tr; dedic & publ data; 11 chs; biblio; tab cont; advert.

The initial chapters on diamond in jewelry, famous diamonds, natural history and properties, deposits, and cutting, are followed by chapters on the history and operations of diamond companies in Belgian Congo(Zaire). The last chapter discusses the influence of World War II on the industry. An uncommon work useful for its history of Belgian diamond mining in Zaire.

2337. GEMOLOGICAL INSTITUTE OF AMERICA

Gem | Accents And Harmonies | A little book showing the importance of | gems in a woman's costume, and contain- | ing many interesting facts about jewels. | Published by | Gemological Institute of America | Established 1931 | 541 South Alexandria Ave., Los Angeles 5, California [1947]

Centerstapled: 20 p, 4 ch orns. Pale green & black wrap, jewel on front cover; plain back cover. 15.3 x 11.4 cm(6 x 4 1/2 in). Cut. JSL.

Costume jewelry, gems for special occasions, rings, care of gems and jewelry, acquiring a collection, important gemstones arranged by color, curious lore of gems.

2338. GEMS & GEMOLOGY Gemological glossary. Vol 1, no 1, 1934, p 27-30 to vol 3, no 8, 1939, p 127-8; 31 contributions.

2339. -----1941-1947 Diamond glossary. Vol 3, no 10, 1941, p 151 to vol 4, no 1, 1947, p 409-10, but ending with the letter "R."

2340. GEMS & MINERALS Gem cutter's handbook. No 315, Dec 1963, p 30 to No 369, Jun 1968, p 35; 53 articles

altogether; printed on centerfold leaves and meant to be detached, punched, and saved in a looseleaf notebook.

2341. GENERAL ELECTRIC COMPANY

General [logo] Electric | Research Laboratory | Man-Made Diamonds | March 1955 | Published by | Research Information services | The Knolls, Schenectady, New York

Centerstapled: [4], 24 p; 13 photos (last 2 inside back cover); 3 diagrams. Heavy white wrap, blue title on cover. 28.1 x 21.7 cm(11 x 8 1/2 in). Cut. JSL.

The first company publication to be issued after their successful attempt to manufacture synthetic diamonds: articles on history of diamond making, scientific literature on same, P/T region of diamond growth, exhibit of man-made diamonds, proof of manufacture, and potential of future high P/T research. Provides photographs of persons involved and of the apparatus and diamonds. Historically important!

2342. -----1961, part 2

General [logo] Electric |...| Man-Made Diamonds | Part Two |...| September 1961

Centerstapled: black print wrap, 8, [1]p, last p is inside back cover. 7 text photos & diagram(one photo of large synthetic diamonds). JSL. The articles on the General Electric synthesis method, patents granted, large crystals to two carats, and semiconducting diamonds.

GENTH, FRIEDRICH AUGUST LUDWIG KARL WILHELM, *commonly* FREDERICK A (1820-1893)

Ger-Amer chemist/mineralogist; b Hesse-Kassel; PhD Marburg U; to USA 1848; opened chem lab Phila same yr; prof chem Penn U 1872-88; very many mineral papers publ; "genthite" named in his honor by Dana 1867. Obit, *Proc Amer Phil Soc*, Phila, 40, 1901, p x-xxii, pl; biogr by W M Myers & S Zerfoss, *J Frankl Inst*, 241, 5, 1946, 341-54; DSB 5, 349-59.

2343. -----1873 Corundum, its alterations and associated minerals. *Proc Amer Phil Soc*, 13, 1873, 361-406. Also separate, pale gray print wrap. JSL. Describes United States corundum occurrences and associated minerals, and corundum alteration products; several deposits produced small amounts of gem material.

2344. -----1874 Ueber Korund, seine Umwandlungen, und die ihn begleitenden Mineralien. *J f prakt Chemie*, 9, 1874, 49-113; also separate in blue printed wrap; 64 p. JSL.

2345. -----1875, with SADTLER, S P

Second Geological Survey Of Pennsylvania: | 1874. | [rule] | Preliminary Report | On The | Mineralogy Of Pennsylvania, | By | F.A.Genth. | [rule] | With An Appendix | On The | Hydrocarbon Compounds, | By | Samuel P.Sadtler. | [rule] | Harrisburg: | Published By The Board Of Commissioners | For The Second Geological Survey. | 1875.

8°: [3], v, 206 p; fold topo map of state bound-in at end. Black cloth, gilt spine. 22.3 x 14.6 cm(8 3/4 x 5 3/4 in). Cut. JSL. GS 7-700, 7-701.

First comprehensive mineralogy of the state: describes species, localities, and arranged according to the crystallo-chemical system. There are notices of corundum, crystalline & cryptocrystalline quartzes, sunstone, moonstone, and amazonite, also several varieties of ornamental serpentine.

2346. -----1891 The minerals of North Carolina. *US Geol Survey Bull* 74, 1891, 119 p, print wrap, cover title. 22.5 x 14.7 cm(8 7/8 x 5 3/4 in). Cut. JSL; GS 5-234, 5-655. Based on the previous compilation published as Appendix C, p 53-89, of W C Kerr's *Report of the Geological Survey of North Carolina*, vol 1, 1875, which see, and reprinted in 1881 as *Mineral Localities of North Carolina, being Chapter I of Volume II of the Geology of North Carolina* (revised) by F A Genth and W C Kerr, published as an octavo volume of 122 pages. The dates given for these works on p 11 of the present work are incorrect. In the present version, the species are arranged in the crystallo-chemical system, and include gemstones diamond, corundum, quartz, spodumene-(hiddenite), smaragdite, beryl(aquamarine & emerald), garnet, "leopardite" decorative rock, staurolite twins, serpentine, and amber. Notes and remarks on localities are very brief and the whole is barely more than an index.

2347. GEOCHIMICA ET COSMOCHIMICA ACTA

Second international symposium on tektites. Vol 28, no 6, Jun 1964, p 753-1017; many figs, diagrams, photos, etc. JSL. Contains 23 technical articles on tektites by various authors, and including articles on tektites used as gemstones although not so entitled. Of special interest: "Geology and stratigraphy of moldavite occurrences," Vladimir Bouška, p 921-30, with fold map of the fields in Czechoslovakia, and "Surfaces of and inclusions in moldavites," Rudolph Rost, 931-6.

2348. GEOGRAPHICAL MAGAZINE Diamonds. Jun issue, 1965, 15 p, ill. Not seen.

2349. GEOLOGICAL SURVEY OF INDIA Diamond. A collection of papers presented at the symposium held on 6th, 7th and 8th September, 1969 at Panna. *Geol Survey India Misc Publ* 19, Delhi, 1971. 8°: [6], iii, [1 blank], [1], [1 blank], 269, [3 blank]p; 16 tip-in pls(most fold, includ maps, diagrams, cross-sects, photos). Pale gray print paper over cardbds; red cloth spine. 23.5 x 15.6 cm(9 1/4 x 6 1/8 in). Bds & text cut flush. Price inland Rs 21-50, foreign £ 2,12.2 or $7.74. JSL.

A large and valuable collection of papers whose information is unobtainable elsewhere inasmuch as they deal with diamond resources and industry in India. The first twelve papers deal largely with Indian deposits or discuss regions in India wherein other deposits may be found. A second group of 13 papers treats scientific and research matters and includes papers on geology and mineralogy of deposits, pipe bodies, petrological studies, identification of diamond, genesis, and industrial uses of diamond. A third group of 7 papers concerns mining and recovery of diamonds in India, while the last group of 8 papers discusses marketing economics, but also includes a paper on industrial diamonds and another on smuggling.

2350. GEORGE, C DENIS The cultured pearl. *Austral Gemm*, 60, 1966, p 10 to no 67, p 9-10, 8 articles, each ca 2-3 p.

2351. -----1967-79 The cultured pearl: its history and development to the present day. *Lap J*, 21, 4, 1967, 510-17, ill(col); 5, 642-7; 6, 786-91. Pearl cultivation in the South Seas. A dedication to the memory of Saville Kent. Vol 24, 5, 1970, 660-74, 25 ref; 6, 810-21, 5 ref. Cultivation of pearl shell and

pearls in the Indopacific region. Vol 33, 1, 1979, 72-84, ill (col); 2, 498-517; 3, 698-716; 4, 934-50; 5, 1136-46; 6, 1340-54.

2352. GEORGE, E C S

Burma Gazetteer [underlined] | Ruby Mines District | Volume A | (Reprint) | Compiled By | E.C.S.George, C.I.E. | [double rule] | 1961 | Superintendent, Govt. Printing And Staty., Union Of Burma | Rangoon

At head of title the Burmese coat-of-arms; there is a similar title on the cover except bearing date of 1962 and an added last line stating the price to be K 4.55.

8°: [2], iii, [1 blank], 151, [1 blank], v, [1 blank]p; part col litho fold map in back cover pocket(41.5 x 34.5 cm(16 3/8 x 13 5/8 in) of Ruby Mines District, including Möng Mit State). Pale gray print paper over bds, green cloth spine. 24.5 x 15.3 cm(9 5/8 x 6 in). Flush cut. JSL.

Cont: tp; sales agents list; tab cont; 14 chs; append; biblio(p 149-51, 7 entries + files & misc); index; back cover map.

This most interesting and valuable report was written by a government official and based on personal knowledge gained during a considerable number of years residence. It provides accurate information on geography, natural and political history, resources, and the famous gem industry of Mogok area and other deposits in the Gem Tract. Despite its authority, this work is not mentioned in any major works which deal with mineral resources of India and Burma under British rule. However, a few remarks on colored tourmaline, included herein, may also be found in expanded form in the author's "Memorandum on the tourmaline mines of Maingnin," *Rec Geol Survey India*, vol 36, 1998, p 233-38. Elsewhere in the above text are early mentions of the presence of gemstones and their mining on p 28-40, in Ch 2, "History and Archaeology," but the meat of the work, insofar as gemstones and the gem mining industry are concerned, is on p 75-91 of Ch 5, "Forests and Minerals." This chapter describes briefly the rubies, classification for trade purposes, methods of mining and washing of gravels, business affairs and taxation, cutting, and lastly provides a lengthy history of the mining industry after the British annexation of Burma, especially in connection with leases granted to Streeter & Company, Ltd, of London. The part-colored map shows mountain ranges, river systems, towns,and political divisions, with Mogok clearly marked. A very scarce paper.

2353. GERCKE, PETER; SCHERF, VOLKER & ZAZOFF, PETER Antike Gemmen in deutschen Sammlungen. München: Prestel [1968-(75)]. v 1-(5). plates. Bd III. Braunschweig, Göttingen, Kassel, bearb. von Peter Gercke... (1970). Not seen; from Arntzen, P 591.

2354. GERCKEN, JOHANN Kurtzer Bericht von Uhrsprung, Krafft und Bereitung der Rohten Corallen und führnemlich derer wahrhafften Tinctur, wie selbe musse beschaffen seyn ... Von Johanne Gercken. Med.Doctore. Vormahligen Churfürstl. Brandeb. Leib-Medico, jetzo Physico beyder Städte Brandenburg. Zum Druck gegeben 1714. 8°: 70 p. Not seen: from Ferguson, *Biblio Chimica*, 1, 310-11; "Roth-Scholtz, Bibliotheca Chemica, 1727, p.89 quotes "an apparent continuation of the preceding: *Curieuse und nützliche Observationes oder Anmerckungen über die Corallen-Tinctur*, Brandenburg, 1715, 8°." A work on the origin, nature, and medicinal virtues of red or precious coral and instructions for preparation of medicines utilizing same.

2355. GERE, CHARLOTTE

European & American | Jewellery | 1830-1914 | Charlotte Gere | [logo] | Heinemann: London [1975]

4°: 240 p; ca 187 text fig(photos, sketches & includes front); 65 col photos. Turquoise unfin cloth, gold lett spine; pale gray endp. White dj, col photos on front & back, resume, vita. 24.8 x 18.3 cm(9 3/4 x 7 1/4 in). Cut. £7.50. ISBN 434 28800. JSL. Arntzen P 586.

Cont: 1/2tp; front; tp; publ data; dedic; tab cont; ackn; picture credits; photo; text in 3 parts; gloss; biblio(p 233-4, 82 entries); index.

Lavishly illustrated with many remarkable reproductions of jeweler's designs and other illustrations besides jewelry, The first part is on fashion and style, the second, of particular interest to the gemologist, is on materials, techniques, and marks, while the last is on jewelers and their designers. The second part, p 81-143, contains a sub-part which in effect is a dictionary in which most of the entries are on the gemstones employed in jewelry; as in the remainder of the book, it is richly illustrated. The gemstones range from agate to zircon, each given a short description and emphasizing its usefulness in jewelry; numerous errors may be found therein. In another section are brief discussions of engraved gems, mosaic & intarsia, gem cutting(mainly on faceting styles), and other lapidary topics, and again not free of error.

GERE, C, see WARD, ANNE, et al

GERHARD, CARL ABRAHAM (1738-1821)

Prussian official, naturalist; stud mineralogy, chemistry, mining; wrote mineralogical treatises and translations into German of books on physics, mining, botany. *Biogr Univ* 65, 295-6; Pogg I, 880-1.

2356. -----1769 Dissertatio disquisitionum physico-mineral. Granatorum Silesiae atque Bohemiae. Francofurt. ad Viadr., 1760; 4°: 44 p. Inaugural dissertation on Silesian and Bohemian garnets. Not seen. Banks gives a German version: "Abhandlung von denen Granaten," *Beiträge zur Chymie*, Th 1,24-45.

GERHARD, FRIEDRICH WILHELM EDUARD (1795-1867)

Ger archeol; b Poznan, Silesia; PhD Berlin U 1815; archeol explor in Italy 1818-33; founded Inst di Corrispondenza Archeologica; to Berlin Mus 1833; Prof Berlin U 1844; began *Archäol Zeitung* 1843; pioneered application scient methods to archeol.

2357. -----1851(?) [Mr B Hertz's collection of antiquities]. An article in *Archäol Zeitung*, 1851. Not seen, but the largest portion of this article, dealing with engraved gems, is given in English translation on p i-xxiii of Sotheby & Wilkinson's *Catalogue of the celebrated and well-known collection ... formed by B.Hertz*... 1859, which see.

2358. GERHARD, PETER Pearl diving in Lower California. *Pacific Historical Review*, 25, 3, Univ Calif Press, Berkeley &

Los Angeles, 1956, p 239-49. JSL. Sums up history of pearl hunting in Baja California waters during preceding three centuries and before modern gear was introduced.

2359. GERLACH, MARTIN

Kronen-Atlas, | Originalgetreue Abbildungen Sämmtlicher Kronen Der Erde | In 151 Holzschnitten | Nach den Besten Quellen Unter Gütiger Mitwirkung Hoher Behörden Und Hervorragender | Heraldiker Und Künstler | Herausgegeben Von | Martin Gerlach | Gezeichnet Von | A.Göhre. | [wavy rule] | Zeichnungen und Holzschnitte Sind Aus Dem Xylographischen Institut Von M.Gerlach & Co. In Wien Hervorgegangen. | [rule] | Atlas Des Couronnes. | Reproduction Exacte De Toutes Les Couronnes De La Terre | En 151 Gravures Sur Bois | D'Après Meilleurs Sources, Avec La Bienveillante Cooperation De Hauts Fonctionnaires, | D'Éminents Héraldistes Et Artistes | Edité Par | Martin Gerlach | Dessiné | Par | A.Göhre. | Traduction Française | De | Felix Salles, | Traducteur Impérial Et Royal À Vienne. | [wavy rule] | Des Dessins Et Les Gravures Sur Bois Sortent De L'Établissement Xylographique De M.Gerlach & Cie., a Vienne. | [rule] | Wien. | Verlag Von M.Gerlach & Co. (F.Schenck.) | Magdalenstrasse 26. [1878]

4°: 34 p + [10] semi-glossy f bearing numerous wood engravs enclosed in single-rule frames, each bearing above the caption "Anhang zum Gewerbe-Monogram." Terra-cotta cloth, gold title on front cover enclosed in ornate black-ruled & orn frame; same rules, blind, on back; spine blank. Bevel bds. Dull, olive-green endp. 30.6 x 23 cm(12 1/8 x 9 in). Cut. LC 31-8737.

Cont: blank f: tp; print data; fwd(Ger & Fr); biblio(p [4], 29 entries); text in Ger and Fr; plates; blank f.

Provides brief descriptions and pictures of the crowns of the world: Germany, Austria, France, Italy, England, Sweden, Norway, Belgium, Netherlands, Russia, and others, and also various church crowns; historical notes. Text in small type and thus more extensive than pagination suggests. Clear, sharp plates, each depicting 8 to 15 objects. Rare.

2360. -----187-? Die Perle. Eine reiche Sammlung mustergiltiger Vorlagen für Juweliere... [etc.] 2 vols, folio, cloth, Vienna, nd, ca 1870?. Contains 173 pls illustrating several thousands of jewelry items. Above from a bookseller's catalog; not seen.

2361. -----1880, new edit

Die | Perle | Neue Ausgabe. | Weltorgan für Juwelen= | Gold und Silberarbeiter | Unter Mitwirkung hervorragender Künstler | und mit Unterstützung des hiesigen K.K.Museum | für Kunst und Industrie | herausgegeben | von | Martin Gerlach | Verlag von M.Gerlach & C° | (F.Schenk) | [1880] | Wien. | Druck von Hundertstund & Pries in Leipzig [Title in red & black in center of elaborately decorated p, all enclosed in a frame of red & black rules] [in 4 vols]

Vol I: 2°: [1]f + 41 f, each printed recto only. Stapled gatherings. Green cloth, very ornately gilt & colored in baroque style on cover with central oval panel giving titles in Ger, Engl, Fr, with publ logo on a red ground in center; similar dec & title on spine; blind orn & oval panel on back cover with logo. Bevel bds. Brown, patterned endp. Green cloth inner hinges. 36.7 x 28.3 cm(14 1/2 x 11 1/8 in). Cut. Ae stained red. USGS Kunz Coll, 55 34-468(and other vols).

Each plate depicts numerous jewels of all types, set with gems and/or pearls, with pl title at top in the three languages, and with a surrounding frame, plus publ data & plate number at bottom. This volume includes the Austrian crown, diadems, lockets, seals, necklaces, rings, brooches, pins, chatelaines, jewels resembling insects, etc, all exquisitely engraved. 500 pieces altogether.

Vol II, no date, but called "II. Jahrgang." Similar binding but in brown cloth, green & gold endp. There is no tp. Contains 37 f, or items 501-935. There are now 3 full-col pls, the first signed "Anton Seder 1881." The paper is mostly pale tan tint.

Vol III, no date, "III. Jahrgang." Similar brown cloth; brown-pattern endp; no tp. Contains 47 f, items 936-1497. The engraving now seems sketchier.

Vol IV, no date, "IV. Jahrgang." Cloth dark brown. Nos 1498-1922.

All of these books are most attractive, with the bindings dazzling in their ornamentation and the illustrations generally superb quality. Many of the jewels today seem overly heavy but faithfully reflected the Gothic-Victorian tastes of the time.

GERMAR, ERNST FRIEDRICH(1786-1853), see BERENDT, G C

GERSAINT, EDME-FRANÇOIS (-1750)

Fr art collector, connoisseur, merchant, famed for his informative catalogs written to aid in dispersals of collections. *Biogr Univ*, 65, 307-8.

2362.-----1745

Catalogue | Raisonné | Des Differens Effets | curieux & rares, contenus dans le | Cabinet de feu M.Le Chevalier | De La Roque. | Ce Cabinet renferme une Collection considerable de | Tableux, de Desseins, & d'Estampes des meil- | leurs Maîtres; de Figures de Bronze & de Mar- | bre; de Porcelaines anciennes; de Lacqs de toute | espece; de Diamans; de Pierres fines de toutes | les couleurs; de Pierres gravées en creux & en | relief, montées en bague ou autrement, & non | montées; de Coquilles, & enfin de nombre d'au- | tres morceaux interessans de diverse genres. | Par E.F.Gersaint. | [orn] | A Paris, | [to left, the word:] Chez [curved bracket enclosing 6 lines as follows:] | Jaques Barois, Quay des Augustins, à la | Ville de Nevers. | Et | Pierre- à l'Hercule. | [rule] | M.D.CC.XLV. | Avec approbation & privilege. [1745]

12°: XX, 14, [2], 258 p; [a]-b^6, A-B^4, A-X^6, Y^4. Engrav front pl(a salon with connoisseurs examing art objects); ch orns. 16.5 x 9.8 cm(6 1/2 x 3 7/8 in). Cut. USGS Kunz Coll.

Cont: 1/2tp; pl; tp; list of catalogs; advert; alphabetical table of painters, artists, etc; catalogs.

The collection of Jean, chevalier De La Roque, (1661-1745). P 109-47: "Pierreries, Agates, Pierres gravées... [etc] ." Includes diamonds, rubies, emeralds, oriental topaz, sapphire, oriental amethyst, turquoise, balas ruby, hyacinth, and others, not to mention the engraved gems (cameos, intaglios, mounted in rings, and loose). Mentioned by Mariette, *Traité de Pierres gravées*, 1, 458.

2363. GESCHWENDT, FRITZ Der schlesische Nephrit und seine Verwendung in vorgeschichtlicher Zeit. *Mitt Schlesischen Altertums Verein*, 10, 1941, 295-368. Not seen.

2364. GESELLSCHAFT FÜR GOLDSCHMIEDEKUNST E.V.

Diamanten | Ein Bericht Über Die | Diamanten-Ausstellung In Hamburg 1963 | Zusammengestellt Und Herausgegeben Von Der | Gesellschaft Für Goldschmiedekunst E.V. | Hamburg 20 · Loogeplatz 3 [1963]

Edgestapled: 75, [1]p; 6 tip-in glossy pls(several fold); 5 figs; 5 graphs; letter facsimile. Pale gray wrap, title in frame on cover; overlap edges. 24 x 17.4 cm(9 1/2 x 6 7/8 in). Cut. JSL.

Brochure issued to the public during the Diamond Exhibition in Hamburg, 22-30 November, 1963, sponsored by the Hamburg jeweler H.J.Wilm K.G. The text largely answers a series of commonly-asked guestions about diamonds, from diamonds in the raw to cut diamonds and industrials.

GESNER, ABRAHAM(1797-1864)

Medical doctor, naturalist: b Nova Scotia; schooled in England (MD); patented process for making kerosene from crude oil; stud mineralogy & geology Nova Scotia. G.F.Matthew, "Abraham Gesner, a review of his scientific work," *Bull Nat Hist Soc New Brunswick*, 15, 1897, p 3-48, ca 15 biblio entries, footnotes.

2365. -----1836

Remarks | On The | Geology And Mineralogy | Of | Nova Scotia. | [orn] | By Abraham Gesner, Esq., Surgeon. | [rule] | "The Earth Not Only Contains Within Her Bosom, | ...[6 more lines]... | [rule] | Halifax, Nova Scotia. | [orn] | Printed By Gossip And Coade, Times Office, | Halifax, Nova Scotia. | 1836.

4°: xl, 272 p; front fold litho pl (Parrsboro); fold hand-col geol map of NS (17.6 x 25.4 cm) facing p 1, and with printed slip pasted in "Explanation Of The Map;" also a view litho pl of Cape Split facing p 206. 20 x 13.5 cm(8 x 5 1/4 in). Ward & Carozzi 899; JSL;GS 6-807.

Cont: pl; tp; dedic; pref; introds(2); fold map; text; errata; list of agents; index.

First major, systematic description of the geology, mineralogy, and economic mineral deposits of Nova Scotia based on personal visits and extracts from other works. The most interesting mineralogical descriptions occur in the large section entitled "Trap District," p 169-265, especially in the Cape Blomidon sub-section, p 210-20, where much is described about the zeolite occurrences, also calcite, prehnite, and the many varieties of crystalline and cryptocrystalline quartz, eg, jasper, agates, amethysts. Similar remarks on Nova Scotia's gemstones also found in Henry How's *The Mineralogy of Nova Scotia*, Halifax, 1869, vi, [1], 217 p, Ch 10, Building and other stones, p 169-78, and Ch 11, Minerals for jewellery and ornamental purposes not before mentioned, p 179-85 (topaz, opal, quartz varieties).

GESNER, or GESSNER, CONRAD or KONRAD(1516-1565)

Swiss theologian, med doctor, naturalist; b Zürich; stud theology, foreign languages, medicine(MD Basel, 1516); turned to study nat hist in later life; first occupant chair in Greek, Lausanne Acad 1537-40; town physician Zurich from 1554; publ over 70 theo, languages, nat hist works, several of major importance; died at age 45 from plague. Pogg I, 387-8; DSB 5, 378-9; H Wellisch spells name "Gessner," in his "Conrad Gessner: a bio-bibliography," *J Soc for Bibliogr Nat Hist*, 7, 2, 1975, 151-247. See also W Ley, "Konrad Gesner, Leben und Werk," *Münchener Beyträge zur Geschichte u Literatur*, H 15/16, 1929, 162 p, ill.

2366. -----1565, editor

De Omni | Rervm Fossi= | Livm Genere, Gem- | Mis, Lapidibvs, Metallis, | Et Hvivsmodi. Libri Ali- | Qvot, Pleriqve Nvnc | Primvm Editi. | Operâ Conradi Gesneri: Quorum Catalo- | gum sequens folium continet. | [woodcut vignette, two finger-rings, surrounded by 12 cut gems, numbered] | Tiguri, excudebat Iacobus Gesnerus: An- | no M.D.LXV. [Zürich, 1565]

The title vignette reappears on f 99 of Gesner's included work, the 8th, with an explanation of its significance, the 12 stones being the same mystical ones referred to in the Apocalypse. In this collected work are 8 distinct works, described separately below. P size 16.5 x 10 cm(6 1/2 x 4 in). Cropped.

8°: tp (unsigned); tab cont signed a2; dedic a3-a5r; diagr of Kentmann cabinet with couplet by Georgius Fabricius C on a5v; woodcut of cabinet on [a6]r. Kentmann's treatise, the first begins on [a6]v with own title and followed by tab cont ending on [a8]v with elaborate woodcut portr of Kentmann above a coat-of-arms and motto. Ward & Carozzi 906; Dewalque 202; De Golyer Coll, U Okla; USGS Kunz Coll, GS 34-375; also GS 34-603;Agassiz III, 51.

(1) Catalogvs Rervm Fossilivm Io.Kentmani... 1565. 95, [1 blank]f, A-M^8. After f 70 several errors in numbering occur but last f no is correct. In tab cont title given as "Io.Kentmani Dresdensis medici nomenclaturae rerum fossilium quae in Misnia praecipue, & in aliis quoque regionibus inventuntur." No tp. Ward & Carozzi 1252.

Catalog of Johannes Kentmann's cabinet of "fossils," or "things dug from the ground," but not confined to paleontological objects: earths, salts, bitumens, stones, gems, marbles, and others. Under "Gemmae," or the very hard stones, are crystal, iris, diamond, opal, emerald, beryl, quartzes, topaz, sapphire, and others. This catalog and its importance to Gesner in the latter's attempts to create a systematic classification of mineral substances is discussed by M J S Rudwick, *The Meaning of Fossils*, 1972, esp p 12-3, with a reproduction of the explanatory chart to the cabinet and a woodcut of the cabinet itself. Adams, *Birth and Development of the Geological Sciences*, p 195, noted that "Kentmann is stated to have been the first man in Europe to make a collection of minerals." Wellisch, ibid, p 222, stated that the catalog was of "fossils and gems from northern Germany," but this seems unlikely in view of the diversity of specimens just in gemstones alone. J K (1518-1574), med student U Leipzig; MD Bologna 1549; town doctor Dresden & Torgau; author botanical & mineralogical works; Gesner's friend for many years & extensively corresponded.

(2) Calcvlorvm qvi in Corpore Ac Membris Hominum innascuntur, genera XII ... 1565. [2], 22 f; Aa-Cc^8. title unsigned; v[Cc8] blank; 10 woodcuts. On calculi found in the human body and possible the first detailed description of gallstones. Ward & Carozzi 1251.

(3) De metallicis rebvs ac nominibus observationes variae et eruditae, ex schedis Georgij Fabricij, quibus ea potissimum explicantur, quae Georgius Agricola praeteriit. 1566. [3], 31 f, a-d^8, c^2. Eleven chapters on noble and base metals by Georg Fabricius(1516-1571), German classical scholar, poet, historian, and archeologist. *Biogr Univ*, 14, 46-7; Pogg I, 711.

(4) De succino libri duo, authore Severino Goebelio, medico doctore... [2], 31 f; f 30 repeated, hence last f should read "31;" e-i^8, last f is blank; titlep bears no imprint, in its place is a "Tetrastichon" in Greek by Conrad Gesner. The text is followed by Gesner's commentary "De bitumine et cognatis ei, naptha (id est, vulgi petroleo), pissasphalto & electro corollarium" of 9 leaves. This work is described separately under Goebel, which

CONRADI GESNERI

DE RERVM

FOSSILIVM, LA=

PIDVM ET GEMMARVM

maximè, figuris & similitudinibus Li-

ber: non solum Medicis, sed omnibus

rerum Naturæ ac Philologiæ

studiosis, vtilis & iucun-

dus futurus.



Cum Gratia & Priuilegio S. Cæs. Maie-

statis ad annos VII.

TIGVRI M. D. LXV.

2366. One of eight parts in Gesner's famous compilation "De omni rerum Fossilium

see. Severin Goebel(1530-1612), German physician & naturalist. Adams, ibid, p 471-2, states that Goebel's work was first published in 4° in 1558.

(5) Valerii Cordi Simesusii De halosantho seu spermate ceti vulgo dicto, liber, nunc primum lucem aeditis. 1566. [3], 37 f, a-f^{8}. Prelims end on ra4 while text begins verso. Gesner's "Corollarium" begins verso f 15 and continues to end. The work is posthumous, to which Gesner added a preface as well as the commentary. Cordus wrote on "efflorescences" of salt found on bodies of water which Dioscorides and Galen had prescribed as cures for skin afflictions. Gesner refutes the popular notion that such salts were the sperm of whales.

(6) Sancti Patris Epiphanii Episcopi Cypri Ad Diodorum Tyri episcopum De XII Gemmis quae erant un veste Aaronis, Liber Graecus, & à regione Latinus, Iola Hierotarantiano interprete: cum Corollario Conradi Gesneri. 1565. [4], 28 f, last p is blank; a-d^{8}. Gesner's commentary f 16-28. JSL. Described under EPIPHANIUS, which see.

(7) De Gemmis Aliquot, Iis Praesertim Quarum Diuus Ioannes Apostolus in sua Apocalypsi meminit... authore Francisco Rueo... 1565. [2], 85 f, misnumb because f2 is repeated; signatures dagger a-i^{8}. JSL. Described under RUEUS.

(8) Conradi Gesneri | De Rervm | Fossilivm, La= | Pidvm Et Gemmarvm | maximè, figuris & similitudinibus Li- | ber; non solum Medicis, sed omnibus | rerum Naturae ac Philologiae | studiosis, vtilis & iuncun- | dus futurus. | [woodcut logo] | Cum Gratia & Priuilegio S.Caes.Maie= | statis ad annos VII. | Tigvri M.D.LXV.

8°: [7], 169 f (last p with printer's mark); Aa-Yy^{8}; 72 woodcuts, many displaying more than one object. Ward & Carozzi 907; JSL.

Cont: tp; dedic; pref; text; errata; printer's mark.

This last work is mainly of interest to the gemologist and mineralogist because it is essentially a compilation of information as them known, but largely free of lore and superstition. The term "fossil" here again refers to anything dug from the ground, and is not confined to paleontological remains. It is, furthermore, one of the earliest attempts to arrange the many objects described into some sort of logical order, but as Thorndike, *History of Magic*, 6, p 307 noted, such arrangement was "quaint, superficial and extraneous, relating stones in appearance or otherwise alien things, rather than attending to the structure of the stones as such." The reasons for the adoption of this scheme are explained in Gesner's preface, as pointed out by Adams, *Birth and Development of the Geological Science*, p 179-83, who provided a full analysis of the 15 classes chosen by Gesner to encompass the diversity of objects. These classes range from pertaining to pure geometrical form, as crystals, to those whose resemblances to living organisms are unmistakable, but including the ridiculous classification of "axe-stones" which are actual stone adzes but were believed to have fallen from the sky! In addition to Adams' analysis, Rudwick, in his work noted above, p 1-35, comments fully on Gesner's book because of its importance to the developing science of paleontology.

Gesner includes descriptions of many gemstones, some displaying crystal forms, others massive, and still others shown as cut gems. A notable illustration shows a long-prismatic, rhombohedrally-terminated, and striated tourmaline crystal from Brazil labeled "smaragdus Bresilicus," or "Brazilian emerald," an unfortunate choice of term that was to be propagated in gemological literature for several centuries. Among gemstones that Gesner included in his "fossils" classification are those which bore resemblance or connotated celestial objects or phenomena, eg, moonstone, carbuncle, aquamarine, diamond, opal, and agate, the last particularly because of showing suggestive scenes when cut open and polished. There are other examples of ill-fitting inclusions in other classes, depending on the criteria Gesner established for them. In regard to the numerous illustrations, the preface states that this is the first book on a mineralogical subject so illustrated, but as Adams, ibid, p 177, points out, the *De re metallica* of Encelius (Entzel), published in 1551, incorporated four small woodcuts of fossils and aetites, each of which Gesner reproduced.

GESNER, M, see ORPHEUS, 1781

2367. GETTENS, RUTHERFORD J Lapis lazuli and ultramarine in ancient times. Reprint: *Alumni*, Brussels, 19, 3/4, 1950; title f + p 342-57, sketch map; biblio p 355-7, 42 entries. Yang 1409. Traces history of lapis lazuli and the pigment made from same; ancient source pinpointed as the still productive gemstone deposit of Sar-E-Seng in Afghanistan; notes on

nomenclature and etymology of terms for the minerals and its pigment.

2368. GETZ, JOHN

The | Woodward Collection | Of Jades And | Other Hard Stones | Catalogue | By John Getz | Privately Printed | 1913 [Title enclosed in double-rule frame; printer: De Vinne Press, New York]

8°: [4 blank]p + xxiii, 107 p + [1 blank]p; col front pl with tissue bound-in; 66 text photos. Dk green cloth, gilt title in frame on cover; gold lett & rules spine; blind frame on back cover. Dull gray-green charcoal-type endp. 24.2 x 18 cm(9 1/2 x 7 1/8 in). Cut. Teg. Not for sale. USGS Kunz Coll, GS 34-279; JSL.

Cont: 2 blank f; 1/2tp; pl; tp; press logo; ill list; pref; introd; biblio(p xxiii, 8 entries); cat tp; catalog; blank p.

An important private collection of Chinese jades and hardstones attractively cataloged and expertly annotated. Among the jades are several Moghul pieces and the hardstones include carvings of quartz, lapis, and several other species. The introduction discusses jades in general, the nomenclature of jade, varieties, jeweled Indian jades, and lapidary techniques, after which appear a chronology of dynasties and the bibliography. There are full notes in the catalog for all items with identifications in English and Chinese, other names, motifs, date, and dimensions. Most of the carvings are obviously top-grade but several photographs fail to do them justice. Born, 1982, p 132; W H Goodyear, "The Woodward jade collection," *Brooklyn Museum Quarterly*, 2, Oct, 1915, p 341-55.

2369. -----1914

The | Morgan Whitney Collection | of Chinese | Jades and Other | Hard Stones | Donated to the | Isaac Delgado Museum Of Art | City Park | Catalogue and Notes | By John Getz | French Order of the Legion of Honor | Italian Order of the Crown | Limited Illustrated Edition | New Orleans, La. | 1914

Edgestapled: 51 p (p [1-4] blank); front glossy photo pl, 11 others. Pale gray wrap, black title on cover. 22.5 x 14.8 cm(8 7/8 x 5 7/8 in). Cut. USGS Kunz Coll, GS 34-545 Rev; JSL.

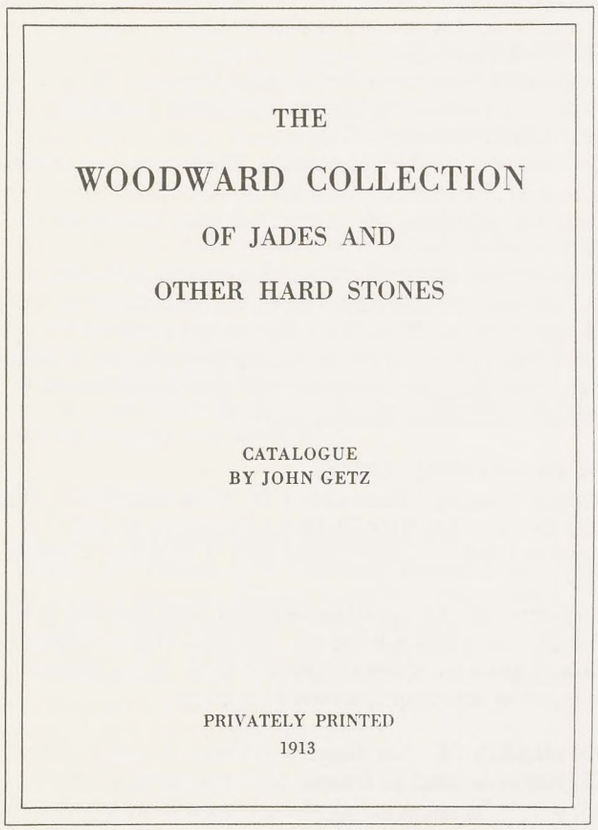
Cont: 2 blank f; pl; tp; fwd; introd; prelim remarks; biblio(p 26, 10 entries); catalog; append; blank p + 6 leaves blank.

The catalog is preceded by remarks on the nature of jade, nomenclature, jeweled Indian jades, lapidary treatment, ancient or tomb jades, Chinese dynasties and a list of Ming emperors. Brief descriptions, with dates and dimensions. Photographs of fair to good quality. Commentary by Born, p 131-2.

2370. -----1919 Catalogue of Chinese art objects including porcelains, potteries, jades... collected by Edward R.Bacon [Edward Rathbone Bacon, 1846-1915]. With illustrations in colour and photogravure. Notes and descriptions by John Getz. New York: Privately printed for Virginia P.Bacon, 1919. xvii, 315 p, including front; 63 pls(part col, mounted). 31 cm. Not seen: from Born, p 68. Pages 205-47 are on jades, mostly decorative items of the 17th and 18th centuries.

2371. -----1920

The Pratt Collection | Of | Jades and Other Hard Stones | at Vassar College | Catalogued By John Getz | 1919 | [orn] | Privately Printed | 1920 [Np; colophon: The Marion Press, Jamaica, Queensborough, New York]


THE

WOODWARD COLLECTION

OF JADES AND

OTHER HARD STONES

CATALOGUE
BY JOHN GETZ

PRIVATELY PRINTED
1913

2368. Chinese jades and hardstones carefully described and illustrated

8°: 62, [2]p; 3 blank f tip-ins ahead and after text; 2 glossy photo pls bound-in. Pale gray paper over bds, white label with title in orn frame pasted to cover; pale brown paper spine. 23.5 x 14.7 cm(9 1/4 x 6 1/4 in). Fe & be uncut. JSL.

Cont: 3 blank f; pl; tp; fwd; introd; text; biblio(p 21, 8 entries); catalog; colophon; 3 blank f.

Discusses the composition and other features of nephrite and jadeite, methods of lapidary treatment, nomenclature, jeweled Indian jades, dynasties, list of Chinese emperors, and describes the 81 objects in the collection. These are listed as rare white jades, colored jades, pink crystal quartz, sculptured rock crystal, and snuff boxes and bottles. The two plates show the collection as housed in two Chinese-design glassed cabinets.

GEYER, A R, see LAPHAM, D M

2372. GEYER, ALAN R; SMITH, ROBERT C & BARNES, JOHN H Mineral collecting in Pennsylvania. *Topographic and Geologic Survey, General Geol Rept* 33, 1976. Printed wrap, xii, 260 p; 30 index maps, 83 location maps, 48 photos, 22 fig. Geol map inside front cover; geol time scale inside back cover; col photos outside covers. 22.6 x 15 cm(8 7/8 x 5 7/8 in). Cut. JSL. Enlarged version of 3rd edition by Lapham & Geyer, which see. Includes gemstone localities.

GEZELIUS, JOHANNES, see LAGERLÖF, P

2373. GHOSN, M T

Origin Of | Birthstones And | Stone Legends | by M.T.Ghosn | Published by Inglewood Lapidary | P.O.Box 701 | Lomita, Calif. 90717. [1984]

Cementb: [4], 73, [1], [2 blank]p. White wrap, red & blue title; back 17.8 x 19.8 cm(7 x 4 1/4 in). Cut. JSL.

Cont: tp; publ data; tab cont; introd; text; tabs; note; blank f.

A trivial work on curious lore, the word "origin" in the title is unsupported by the text except for birthstones related to Biblical statements. Most of the material appears to be derived from Kunz's *Curious Lore*. No biblio, no text refs; long list of stones includes several known so recently that they cannot have any "tradition": alexandrite, kunzite, tigereye.

2374. GIACOMINI, AFTON

Trophy Winning | Facet Cuts | By Afton Giacomini | [logo] | Price $2.00 | SBN 910652-19-8 | Copyright © 1973 by Gembooks | Published By | Gembooks | Mentone, California 92359

Centerstapled: 32 p; 80 line drawings. Tan print dec wrap. 21.5 x 13.5 cm(8 1/2 x 5 3/8 in). Cut. JSL. Precise settings for 25 faceted gems using her designs and those of her husband Mervin; many are unique, several won prizes.

2375. GIARD, M Les diamants célebres, Besançon: Millot, 1975, Not seen; cited in Bariand & Poirot *Pierres précieuses*, 1985, p 257: "detailed recital of the historical vicisssitudes of 30 of the most famous diamonds, with succinct notes on 100 other historical diamonds,"

GIARD, M E, see LEGRAND, J

2376. GIARDINI, A A & TYDINGS, J E Diamond synthesis: observations on the mechanism of formation. *Amer Min* 47, 11/12, 1962, 1393-1421, 14 fig, 35 ref. JSL. Brief history of attempts; conversion of graphite to diamond; thermodynamics; apparatus; phases, Followed by article on X-ray study of synthetic diamond by J A Kohn & D W Eckart, p 1422-30.

2376A. GIBAS, T Korund i jego zastosowanie w technice. *Wyd Śląsk Katowice* 1971, p 356-380. Not seen; from Maria Plaszyńska, 1988 biblio.

2377. GIBSON, JOHN(d 1887)

Science Gleanings | In Many Fields. | By | John Gibson, | Natural History Department, Edinburgh Museum of Science and Art. | [rule]| Studies in Natural History. | [rule] | With 18 Illustrations. | London: | T.Nelson and Sons, Paternoster Row. | Edinburgh; and New York. | [rule] | 1884

8°: viii, [1], [1 blank]p + p [11]-377 + [1 blank]p + [6 advert]p; 18 cuts, printed on one side of leaf, other side blank, but in gatherings and includ in pag. Blue cloth, gold Great Auk on cover with black lett & rules, border; similar spine; ornate blind frame back cover. Bevel edges. Pale brown floral pattern endp. 17.9 x 11.9 cm(7 x 4 3/4 in). Cut. JSL.

Cont: front illus of auk; tp; pref; tab cont; ill list; 37 chs; blank p; adverts.

Interesting, simplified writing on many natural history subjects and including Ch 22, "The Pearl Fishery," 228-38, Ch 23, "Precious Coral," 239-48, each chapter with illustrations.

2378. -----1886 Chips from the earth's crust. London: T.Nelson And Sons. Not seen.

2379. -----1887 reprinted

Chips | From The Earth's Crust; | Or, | Short Studies in Natural Science. | By | John Gibson, | Natural History Department, Edinburgh Museum of Science and Art. | Author of "Science Gleanings in Many Fields," | "Monsters of the Sea," etc. | [rule] | With 29 Illustrations. | [rule] | London: | T.Nelson And Sons, Paternoster Row. | Edinburgh; And New York. | [rule] | 1887.

8°: 304 p; engrav front pl tip-in; engrav vignette (salt mine) on 1/2tp; 27 wood engrav on a like number of f, printed one side only, other sides blank; however, while integral in gatherings they are not includ in pag! Pale blue cloth, rect gilt & black vignette on front cover, with black lett & rules; similar vignette, etc on spine; back cover with only central blind floral orn. Pale olive, floral-pattern endp. Also in brown cloth. 18.1 x 12.4 cm(7 1/8 x 4 7/8 in). Cut. JSL.

Cont: 1/2tpi tp; pref; tab cont; ill list; 28 chs; index.

A series of short, interesting, and factual essays on many aspects of geology and mineralogy, including landslips, paleontology, gemology, economic minerals, precious metals, salt, oil, theoretical geology, coral island theories, sea floor geology, earthquakes, meteorites, tides, tornadoes, and the rise of the Nile River. Ch 6 describes diamond and diamond mining, with several illustrations, Ch 7 is on amber and meerschaum, and Ch 8 describes agates from various deposits and the agate industry of Idar-Oberstein in Germany. None of the information is remarkable.

2380. -----1890, reprinted, cloth green, text identical.

2381. GIESELER, G Le jade dans le culte et les rites funéraires en Chine sous les dynasties Tcheou et Han. *Revue Archéologique*, Paris, July-Dec 1916, p 61-118; reprinted, 1916, 58 p. Not seen: Hansford, biblio, p 10, 44: Yang, 1405.

2382.-----1932 Les symboles de jade dans le Taoisme. *Revue de l'Histoire des Religions*, Paris, 105, 1932, p 158-81. Not seen: Yang 1407.

2383.GIGLIOLI, ENRICO HILLYER

Materiali | Per Lo | Studio Della "Età Della Pietra" | Dai Tempi Preistorici All'Epoca Attuale | [rule] | Origine e sviluppo della mia collezione | [rule] | Per | Enrico Hillyer Giglioli | Professore ordinario di Zoologia nel R.Istituto di Studi Superiori, Firenze. | Vice-Presidente della Società italiana di Antropologia ed Etnologia. | Socio d'Onore delle Società Antropologiche di Londra, Parigi, l'Aja e Vienna; | dell Geografiche di Roma, Londra e Berlino; della Polinesiana di Wellington, N.Z.; | della Filosofica Americana di Filadelfia, ecc. ecc. ecc. | [photo] | Firenze | Tipografia Di Salvadore Landi | 12 - Via Santa Caterina - 12 | [rule] | 1901

"Estratto dal *Supplemento* al volume XXX | dell'*Archivio per l'Antropologia e l'Etnologia*"

8°: [2], 248 p.(with parallel pagination of text from p 19-264); 57 fig (photos & line drawings). 24.8 x 17 cm(9 3/4 x 6 5/8 in). Cut. JSL.

Cont: tp; extract data; dedic; prolog; descriptions; epilog.

Noted Italian anthropologist/ethnologist Giglioli assembled a very large collection of artifacts of primitive cultures reputed to be among the finest in the world. In this work he systematically describes the objects, country by country from Europe, Asia, Africa, and America, but most is devoted to descriptions of artifacts from Australasia-Polynesia. A wide variety of gemstone materials are incidentally described, for example, nephrite and bowenite in the hei-tiki carvings of the New Zealand Maori. For the student interested in learning what kinds of minerals and rocks were used in primitive weapons, tools, and ornaments, this would be a useful source of information.

2384. GILBERT, ANNA HAIRE

Gems And Gem Minerals | A Catalog | Of The Goetzke Collection | Prepared By Anna H.Gilbert Of | The Science Department Under | The Direction Of John Cotton Dana | The Museum | Newark, New Jersey | 1929

Centerstapled: 28 p, photo of gem hall. Pale tan print wrap, cover title. 23 x 15.2 cm(9 x 6 in). Cut. Wrap overlaps text. LC 29-18061. JSL.

Describes loan exhibit of a collection that had taken 20 years to form: gem minerals, synthetics, organic gem materials, precious metals, enamels, mosaics, engraved gems, pearl shell, and pearls. Lists species alphabetically, notes source localities, but no sizes, cuts, etc. See also a later guide under MAGNUSON, H R. John Cotton Dana(1856-1929).

GILCHRIST, J D F, see FLINT, N

2385. GILES, CARL H & WILLIAMS, BARBARA ANN

Bewitching Jewelry | Jewelry of the Black Arts | Carl H.Giles and Barbara Ann Willlams | [logo] | South Brunswick and New York; A.S.Barnes and Company | London: Thomas Yoseloff Ltd [1976]

16°: 159, [1 blank]p; 38 b&w photos; 30 col photos on 5 tip-in glossy f; ca 130 line drawings. Green paper over bds; gold spine title; col dj, col photos, portr of authors, resume. 25 x 16.3 cm(9 7/8 x 6 3/8 in). Cut. $12.00 or £ 5.00. LC 74-30726; ISBN 0-498-91654-4. JSL.

Cont: 1/2tp; other bks of authors; tp; publ data; dedic; tab cont; disclaimer; ackn; 10 chs; biblio(p 147-53, ca 170 entries); index; blank p.

Compared to standard works on amulets & talismans, most of which are absent from the bibliography, the present work suffers badly. The writing is sloppy, slangy, and contains numerous grammatical errors as well as poorly-defined terms and factual errors in parts dealing with gemstones. The absence of standard gemstone references in the bibliography suggests laxity in checking mineralogical/gemological facts as borne out by the textual errors noted above.

2386. GILI, JOAN Lapidari. Oxford: Dolphin Book Co., 1977, p xxiii, 49. Price £2.50. Rev M O'Donoghue, *J Gemm*, 17, 3, 1980, 197-8. Not seen. "This is a 15th-century treatise on precious stones in Catalan. The text is not difficult to understand for those with some linguistic knowledge; line numeration is provided and there is an introduction as well as a glossary."

2387. GILL, JAMES

The Emigrant's Guide | To The | South African Diamond Fields | By James Gill, M.A. Cantab. | Graaff-Reinet College | Cape Colony | London | Sampson Low, Son, And Marston | Crown Buildings, 188 Fleet Street | 1870

Centerstapled: 16 p; front map. Pale brown wrap, title in ruled frame on cover. 18.2 x 12.3 cm(7 1/8 x 4 3/4 in). Cut. Sixpence. USGS Kunz Coll, GS 34-604. JSL.

Cont: map; tp; print data; text.

One of the very early accounts of diamond mining in South Africa published only two years after the initial discovery. Describes general living conditions, the government, routes of travel and methods of transport, costs, extracts from newspapers and letters, etc, all designed to give a brief but useful sketch of what an emigrant could expect in going to the fields and living there. The map shows the route from Port Elizabeth to the Campbell Diggings near Pniel. Rare.

2388. Not used.

2389. GILL, JOSEPH OSBORNE(1949-)

Origins Of | Gemology In Pictures | Historical and Notable Prints from an Exclusive Library on Gems | [woodcut] | A view of the diamond district of Brazil, circa, 1755 | by Joseph O.Gill, CG, FGA | gemologist of De Young | Note: The numbers by the pictures refer to the source of the print, found in | the bibliography at the end of this publication [Boston, Massachusetts: J. & S.S.De Young, Inc., 1976]

Centerstapled: [1], [1 blank], 50, [1]p, the last p is inside back cover. Many reprods of engravs, cuts, photos, titlepages. Pale blue glossy wrap, engrav & title on cover. 27.9 x 21.5 cm(11 x 8 1/2 in). Cut. Free. JSL.

An interesting, completely pictorial brochure issued by the Boston jewelers upon the occasion of the American Gem Society conclave held in Boston in 1976. The illustrations are taken from 63 works listed in the bibliography, from Nicols' *A Lapidary* to works of recent date, and depicting mining scenes, lapidary work, famous gems, stone objects, and two titlepages, one of Nicols' work, noted above, and the other of the first English edition of Tavernier's *Voyages*.

2390. -----1979

Gill's Index | To Journals, Articles And Books | Relating To Gems And Jewelry | Works in the English language arranged chronologically | and by subject. | By Joseph O.Gill, B.Sc. | Fellow of the Gemmological Association of Great Britain | Certified Gemologist of the American Gem Society | Gemologist, by the Gemological Institute of America | Dedicated to Dr. George Frederick Kunz | (1856-1932) [Santa Monica, California: Gemological Institute of America 1979]

16°: [2 blank], viii, [1 blank], 420, [4 blank]p; 5 reprod of bk ill, one is front. Dk blue leather-like cloth, gold title cover & spine. 21 x 14 cm(8 1/4 x 5 1/2 in). Cut. $5.00(originally 24.50). ISBN 0-87311-009-9. JSL.

Cont: blank f; 1/2tp; front; tp; publ data; tab cont; pref; introd & descriptions of journals; text in 4 parts; 4 blank p.

Indexes and paginates important articles under the headings: Gems & Gem Materials, Gem Locations, Gemology, and Jewelry, from *USGS Mineral Resources of the US*, 1882-1921; *The Mineral Industry*, 1905-32; *US BuMines Minerals Yearbook*, 1932-75; *The Gemmologist*, London, 1931-62; *Gems & Gemology*, Los Angeles, 1934-; *The Journal of Gemmology*, London, 1947-; *Lapidary Journal*, San Diego, 1947-; and *The Australian*

Gemmologist, Sydney, 1958-. A few articles from other journals are included but such long-lasting periodicals that should have been searched are *The Mineralogist*, Portland, *Rocks & Minerals*, Peekskill, N.Y. & Washington, D.C., and *Earth Sciences*, Colorado Springs. Despite these omissions and others that could have been mentioned, this index provides an extremely valuable tool for any researcher in the future. Books in the author's library are merely listed and these seem not to serve any useful purpose germane to the principal purpose and all could have been omitted without loss. There are many minor faults and the entire work should have been subjected to professional bibliographic scrutiny before publication.

2391. -----1982 Gemological literature in the English language. International *Gemological Symposium, Proceedings*, 1982, D M Eash, ed; Gemological Institute of America, Santa Monica, California, 1982, p 293-304, 13 fig. JSL. Brief survey of major gemological treatises published in the last 300 years in the English language only. Some titlepages & other figures reproduced.

GILL, S, see JACKA, J

2392. GILLSON, JOSEPH L A day in a Ceylon gem field. *Amer Min*, 18, 7, 1933, 300-8, 2 fig. Also in reprint. JSL. Where the gem pits are, how dug, nature of deposits, mining methods, recovery, cutting, commerce, etc.

2393. GILMAN, ERWIN C

The New Improved Gem Tumbling Guide | by | Erwin C.Gilman | The latest and most modern methods of | Tumble Polishing Gem Stones | This book differs from most earlier publications | due to new discoveries in this field. | Copyright 1971 by Robert C. and Naomi Gilman | Published by | Gilman's | "at the cave" | Hellertown, Pa. 18055

Centerstapled: [4], 52, [8]p; ill. Dec print wrap. 19.2 x 14.2 cm(7 1/2 x 5 1/2 in). Cut. [label price $2.25] JSL.

Contains much useful information but not readily extracted due to much included extraneous matter and poorly organized text.

2394. GILMORE, E L

A | Rockhound's Guide To The | Gems & Minerals | Of Oklahoma | © E.L.Gilmore 1963 | No part of this book may be reproduced... [2 more lines] ...| Price $2.50 | Published by | E.L.Gilmore | 1206 W.19th St. | Tulsa 7, Oklahoma | -3-

Centerstapled: 77, [3]p; 5 sketch maps(one is doublepage, black & red). Dk red pebbled paper, black cover title. 21.6 x 14.1 cm(8 1/2 x 5 1/2 in). JSL.

Mineral & varieties in alphabetical order with county localities: gem stones include agate, amber, chalcedony, chert, jasper, jet, pearl, petrified wood, and quartz.

2395. GILTAY-NIJSSEN, L

Jewelry | [vignette jewel] | by L.Giltay-Nijssen | Merlin Press | London [1964]

8°: 112 p; 24 photos on 8 bound-in glossy f; 62 fig (includes ch orns & doublep map); 4 tab. Black cloth, gold spine title; col dj, col jewels on covers, resume, advert. 20.6 x 13.3 cm(8 1/8 x 5 1/4 in). Cut. 18s. JSL.

Cont: 1/2 tp; other bks in series; tp; publ data & ackn; fwd; text; translations; biblio(p 111, 30 entries); tab cont.

Short, popular work on history of jewelry from 18th century onward; last portion of text, p 95-109, on birthstones, curious lore, zodiacal stones, birthstones table, map of world gem sources, tab of gemstones properties, cutting style drawings, relative carat weights, and some famous diamonds. First published in Bussum, Netherlands, by C A J van Dishoeck, not seen.

GIMMA, GIACINTO (1668-1735)

Native of Bari, Italy; stud jurisprudence U of Naples; writer, editor; wide interests, learned, and published a number of important works. *Biogr Univ*, 65, 339-40.

2396. -----1730

Della | Storia Naturale | Delle | Gemme, Delle Pietre, | E Di Tutti Minerali, | Ovvero Della | Fisica Sotteranea | Di | D.Giacinto Gimma | Dottore delle Leggi, Avvocato straordin. della Città di Napoli, Promoter-Generale | della Scientifica Società Rossanese degl'Incuriosi, ecc. | In Cui | delle Gemme, e delle Pietre stesse si spiegano la Nobiltà, i Nomi, i Colori, le Spezie, i | Luoghi, la Figura, la Generazione, la Grandezza, la Durezza, la Madrice, l'Uso. le | Virtù, le Favole: se al fuoco resistano: quali sieno nella Sagra Scrittura nominate: qual i | Simboli: ed altre notizie, che alle medesime appartengono. Si dà ancora la cognizione de' | Metalli, delle Terre, de'Sali, de'Solfi, de'Bitumi, delle Acque diverse: di quelche | si tratta nella Storia de'Fossili, che dalle Pietre si formano: delle Caverne, delle Acque, e | de'Fuochi sotteranei, de'Vulcani del Mondo, e di quanto se esamina nella Fisica Sotter- | ranea; oltre alcuni Trattati valevoli a dilucidare la Storia tutta della Minerale, ed altri, | che della Vegetevole, e di quella degli Animali, sono proprj. | Divisa In Libri VI. O Tomi II. | colle Tavole de'Capitoli nel primo: de'Nomi delle Pietre, e delle | cose notabili nel secondo. | Tomo I [-II]. | [orn] | In Napoli. MDCCXXX. | Nella Stamperia di Gennaro Muzio, erede di Michele-Luigi. | Con Licenza de' Superiori, e Privilegio. | A Spese Dello Stesso Muzio, E Di Felice Misca.

Vol I: 4°: [48], 551, [1 blank]p; [a]-f^4, A-Zzz^4. Fine allegorical fullp engrav by Anr.Baldi faces title and at top shows a cupid-supported framed portr of author, and scenes of coral fishing and mining below, also several volcanoes, a coat of arms, etc. A text engrav, p 336, depicts several branches of coral on a tazza; woodcut ch orns. 23 x 17.7 cm(9 x 7 in). Cropped. USGS Kunz Coll, GS 34-490; Ward & Carozzi 914;Dewalque 203; DeGolyer Coll U Okla; JSL; Agassiz III,56.

Cont: 1/2tp; front; tp; quotes; dedic; ltr followed by sonnets and ltrs; tab cont to both vols; approb; errata. text in 4 bks; blank p.

Vol II: [2], 603, [1 blank]p; pi, A-$Ffff^4$, $Gggg^2$. Ch orns.

Cont: tp; quotes; text in bks 5-6; blank p.

This encyclopedic work is important for its summation of all worth knowing at that time concerning gemstones and many mineral substances as indicated in the title. Because the author frequently refers to or cites older authorities, Adams, *Birth and Development of the Geological Sciences*, p 5, deems it "one of the best guide books for the student who wishes to explore the mazes of the ancient literature of the geological sciences." However, Adams fails to say that this work is also of extreme importance in respect to its content of gemstone information. The six books which comprise the work are apportioned four in the first

volume, and two in the second volume. The first book discusses early references to gems and their precious nature, uses in rings and seals, gems in the Sacred Scriptures, and then devotes much space to a discussion of the origin of gemstones. Other topics are color, luminescence, wonderful virtues of gems, pricing, frauds, and classes of gemstones. The second book is entirely descriptive and considers the diamond, emerald, sapphire, ruby, garnet, jacinth, cryptocrystalline quartzes, beryl, topaz, chrysoberyl, opal, and others, but some, like malachite, heliotrope, and the like, are obviously out of place here. The third book describes stones of lesser value, namely, rock crystal, glasses (with a side excursion into glass used in optical instruments!), coral, lodestone, asbestos, amber, jet, lapis lazuli, and others, along with several that are poorly identified, and also nephrite and stones used in medicinal preparations. The fourth book treats stones derived from animal sources, that is, organics, such as nacre & pearl, various boney parts of certain animals and fishes, bezoars, fossils and geodes. In connection with stones that are said to form within the human body as a result of the use of tobacco, a lengthy detour is taken into tobacco and its nature! The fifth book is also of great interest to the gemologist because it describes marbles, mosaics, pietre dure inlays, sandstones, pumice, ores, more fossils, phosphorescent stones, figured stones, and many other curious examples. The sixth book is largely on earths of various kinds, also saline minerals, sulfur, bituminous substances, odoriferous substances with a digression into animal and vegetable perfumes, mineral waters, earthquakes, and much discussion of volcanoes and their products. This magnificent work is valuable for its comparison of statements made by many authorities and the injection of the author's own views, not to mention the sheer quantity of information supplied by the text. It deserves translation. Rare.

2397. GINZBURC, ANNA ILINICHNA

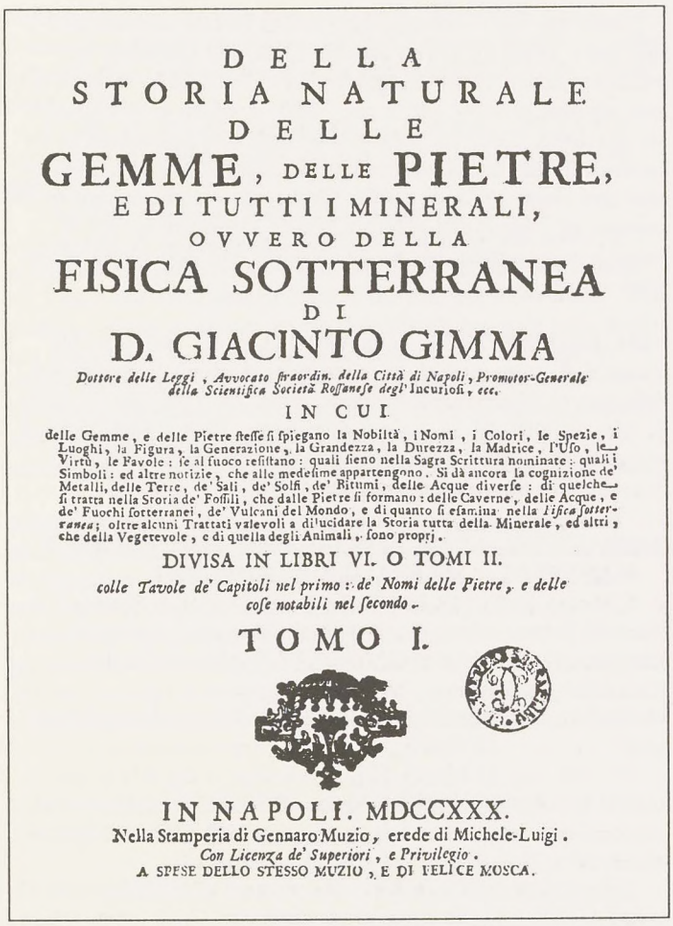
Ministerstvo Geologii SSSR | Vsesoyuznye Nauchno-Issledovatelskii | Institut Mineralnogo Syrya (VINS) | Atlas | Mineralov | Rud | Redkikh Elementov | Pod Redaktsiei A.I.Ginzburg | Moskva "NEDRA" 1977 [title in pale olive green & black]

8°: 86 p + [178]p illust; front photo; 3 tab; 42 crystal drawings; 263 col photos. Olive brown, leather-like paper over bds; gold title cover & spine; olive-brown endp; brown dj with col photo; flap resume. White marker ribbon. 21.3 x 16.9 cm(8 3/8 x 6 5/8 in). Cut. 10,000 copies. 4 r 49 k. JSL.

Cont: tinted logo; tinted photo front; tp; publ data; edit fwd; introd; 3 chs; biblio(p 85-6, 40 entries, all Russ); ill sect tp; ill; tab cont & print data.

The first part is a condensed descriptive mineralogy, with remarks on genetic type deposits, minerals of the rare elements, in particular those containing Li, Cs, Be, Nb, and Ta; small crystal drawings appear here but some are carried over into the illustration section. The main portion is occupied by the color photographs of minerals, many of which are gemstones such as spodumene, amblygonite, pollucite, chrysoberyl, phenakite, euclase, beryl, simpsonite, etc. It is a handsome, well-produced work but suffers from poor color registry with consequent slight blurring.

2398. GINSBURG, I I Dragotsennye i poludragotsennye kamni. *Entsiklopediya Russkogo Eksporta*, T 3, Izdatelstvo Torgpredstva SSSR v Germanii, Berlin, 1925. p 251- 266. Not seen.



DELLA
STORIA NATURALE
DELLE
GEMME, DELLE PIETRE,
E DI TUTTI I MINERALI,
OVVERO DELLA
FISICA SOTTERRANEA
DI
D. GIACINTO GIMMA

Dottore delle Leggi, Avvocato straordin. della Città di Napoli, Promotor-Generale della Scientifica Società Roſſaneſe degl' Incuriosi, ecc.

IN CUI

delle Gemme, e delle Pietre ſteſſe ſi ſpiegano la Nobiltà, i Nomi, i Colori, le Spezie, i Luoghi, la Figura, la Generazione, la Grandezza, la Durezza, la Madrice, l'Uſo, le Virtù, le Favole: le al fuoco reſiſtano: quali ſieno nella Sagra Scrittura nominate: quali i Simboli: ed altre notizie, che alle medeſime appartengono. Si dà ancora la cognizione de' Metalli, delle Terre, de' Sali, de' Solfi, de' Bitumi, delle Acque diverſe: di quelche ſi tratta nella Storia de' Foſſili, che dalle Pietre ſi formano: delle Caverne, delle Acque, e de' Fuochi ſotterranei, de' Vulcani del Mondo, e di quanto ſi eſamina nella *Fiſica ſotterranea*; oltre alcuni Trattati valevoli a dilucidare la Storia tutta della Minerale, ed altri, che della Vegetevole, e di quella degli Animali, ſono proprj.

DIVISA IN LIBRI VI. O TOMI II.

colle Tavole de' Capitoli nel primo: de' Nomi delle Pietre, e delle coſe notabili nel ſecondo.

TOMO I.

IN NAPOLI. MDCCXXX.

Nella Stamperia di Gennaro Muzio, erede di Michele-Luigi.

Con Licenza de' Superiori, e Privilegio.

A SPESE DELLO STESSO MUZIO, E DI FELICE MOSCA.

2396. Titlepage to the first volume of a two-volume encyclopedic assemblage of all available knowledge on gemstones and minerals generally

2399. GIRALDINI, PIER FRANCESCO(fl 1626) Discorso sopra la pietra belzuar minerale di Pier Francesco Giraldini... Firenze, Appresso Zanobi Pignoni [1626]. 106 p, 5 f, 22 cm. Signatures: Maltese cross^4, A-M^4, N^6(N6 blank). Colophon: Stampisis adi 4. Nouembre 1626. Niccolo dell'Antella. [Title in compartment; orn inits, head- & tailpcs]. Not seen; from *Hoover Coll Cat*, 1980, p 86, no 355.

2400. GIULIANELLI, ANDREA PIETRO

Memorie | Degli | Intagliatori | Moderni | In Pietre Dure, Cammei, E Gioje | Dal Secolo XV. Fino Al Secolo XVIII. | Inventas aut qui vitam excoluere per artes, | Quique sui memores alios fecere merendo. | Virgil. Aeneid. VI. V. 663. & seq. | [engrav vignette, wreath & Greek motto] | In Livorno.)(MDCCLIII. | Per Gio. Paolo Fantechi E Compagni. | Con Licenza de'Superiori. [1753; title in red & black;)(sic]

4°: XX, 175, [1]p; a-b^4, c^2, A-Y^4. Wood engrv inits, ch orns. 21.9 x 16 cm(8 5/8 x 6 1/4 in). Cropped. USGS Kunz Coll, GS 33-296; JSL.

Cont: tp; dedic; transl pref; Mariette pref; index of engravers; Vasari discourse on modern engravers; same by Mariette; suppl remarks by G; family tree of Vasari D'Arezzo; further remarks by G; Venuti letter & reply; errata.

Essentially the translation into Italian of two sections of P J Mariette's *Traité des pierres gravées*, 1750, and including the prefatory section from Giorgio Vasari's (1512-1574) *Lives of the most excellent painters*, etc, 2 vol, 1550, in which gem engravers are discussed. These are followed by extended commentaries by Giulianelli with additional names and data. C W King, *Antique gems and rings*, 1872, 1, p 464: "designed as a supplement to the treatises of Vasari and Mariette, which it comprises: full of valuable information, but badly arranged and difficult to follow." Very scarce.

2401. GIUSEPPETTI, G & VENIALE, F Relazioni tra natura dell'acqua morfologia e struttura degli opali. *Rendiconti della Societa Mineralogica Italiana*, Pavia, 23, 1967, 83-97; nota 2, ibid, 25, 407-38. Not seen: *Min Abstr*, 20, 4, 1969, "distinct correlations... between structural properties, morphological features, and the role of water [in opal]."

2402, GIUSTI, ANNA MARIA; MAZZONI, PAOLO & MARTELLI, ANNAPAULA PAMPALONI

Il Museo Dell'Opificio | Delle Pietre Dure | A Firenze | A Cura Di | Anna Maria Giusti | Paolo Mazzini | Annapaula Pampaloni Martelli | Introduzione Di | Umberto Baldini | Electa Editrice [Milano, 1978]

"Gallerie E Musei Di Firenze, Collana Diretta da Ugo Procacci."

4°: 412, [1], [1 blank], [1], [1 blank]p; 6 fig; 675 pl photos(70 in col); also 120 col photos of stones. Pale olive-green charcoal-type paper over bds; pale green lett, brown design on cover. 26 x 21.5 cm(10 1/4 x 8 1/2 in). Cut.JSL.

Cont: 1/2tp; tp; publ data; introd; text; pls; catalog text; append; biblio(p 389-90, over 60 entries); names index; ill index: general index; print data.

A splendid work, beautifully illustrated, on the famous pietre dure inlay craft of Florentine artisans. The authors minutely examine and describe the numerous existing pieces and related stone objects preserved in the Museo Dell'Opificio which were produced by a corps of lapidaries assembled and set to work by the Medici family sometime in the 15th century; see especially the historical notes by Martelli, p 15-18. While the treatment is largely descriptive, hundreds of objects being cataloged, it also provides many illuminating remarks on many types of work other than simple planar inlay, eg, carvings in the round in Egyptian red porphyry, and other materials, gem engraving, decorative panelings, paintings upon figured stone slabs, and many fine photographic illustrations of work benches, and the tools of the lapidaries. There is a large section, p 365-88, on the raw stones used by the workers, with 120 polished specimens depicted in color and ranging from alabasters to fine-grain igneous rocks, and including many kinds of limestones, marbles, breccias, quartz varieties, silicified wood, malachite, lapis lazuli, all chosen with the view of lapidary work compatability but also to match colorations and textures of the objects, views, persons, etc, being depicted. For other objects similar to these, consult the companion work on collections in Florence other than in the Museo Dell'Opificio, by U Baldini, et al *La Capella Dei Principe*. So far as I know, this volume is the first to provide a reasonably full explanation of the methods used by the Florentine lapidaries to create their works in stone.

2402A. GIUSTI, ANNAMARIA, Editor

Splendori Di Pietre Dure | L'Arte di Corte | nella Firenze dei Granduchi | Coordinamento scientifico del catalogi | a cura di Annamaria Giusti [Firenze: Giunti Editore, 1988]

8°: 280 p; 128 col photos, 38 b&w photos. Silvery, plasticized paper wrap, col photo on front; spine title; price, etc back cover. 28 x 21 cm(11 x 8 1/4 in). Cut. L 30,000. ISBN 88-09-20075-6.

Cont: city offices of Florence; advert; tp; publ data & ackn & abbrev; 4 prefs; tab cont; 6 essays; catalog of 79 examples; chronology of procurements & descriptions of the stones; design & lapidary treatment; bibliography.

Provides a history of the origins and development of the arts associated with pietre dure work in France, and other places as well as in Italy, where the materials came from, early notices of the works by travelers from abroad, and in the catalog, a selection of masterpieces from Italy primarily with descriptions, historical notes, artists, materials, etc. A fitting companion to the previous work above,

2403. GLASER, GEORGE F

Schedule | [orn] Of [orn] | Gem-Stones | [rule] | Price, 25 Cents. | [rule] | Arranged and Published by | Geo.F.Glaser, | Dealer In | Precious Stones, Minerals And Shells, | 1107 Sixteenth St., Denver, Colo[rado]. [1892]

Centersewn: 24 p. Stiff, dk red wrap, alligator-graining, gold title, rules, gold crosses on cover. 16.5 x 12 cm(6 1/2 x 4 3/4 in). Cut. LC 8-24508.

Cont: tp; publ & cost data; precious stones & their meanings; list of gemstones by number, from 1 (diamond) to 64 (pearl), with hardnesses, specific gravities, and sources; discussion of gemstones offered, qualities, sizes, prices, etc, and with a poem "The Birth of the Opal" on p 18; prices for seashells p 23-4. Attractively designed & produced sales booklet.

GLANVILLE, B, see BARTOLOMAEUS ANGLICUS

2404. GLASS, JEWELL JEANNETTE(1888-1966) The pegmatite minerals near Amelia, Virginia. *Amer Min*, 20, 11, 1935, 741-68, figs, tabs. Describes gem spessartine, moonstone albite, among other species.

GLAZEMAKER, J H, see TAVERNIER, J B, 1682

2405. GLEASON, STERLING

Ultraviolet Guide To Minerals | A Complete Working Manual for the Use of | Ultraviolet Light in Locating and Recognizing Minerals | Including Field Identification Charts | [rule] | by | Sterling Gleason | Los Angeles Mineralogical Society | [logo] | D.Van Nostrand Company, Inc. | Princeton, New Jersey | Toronto London | New York [1960]

16°: xii, 244 p; 9 fig; 61 col photos on glossy f, bound-in. Pale yellow-green cloth, dk green spine band, gilt. Col dj, resume, vita. 21.2 x 14 cm(8 3/8 x 5 1/2 in). Cut. $6.95. JSL. LC 60-16925.

Cont: tp; publ data; pref; ackn; tab cont; 13 chs; index.

A fine popular work with sections for the beginner as well as for the more advanced student of ultraviolet light mineralogy. Covers methods of identification, collecting, field work, uses of UV in mine, mill, and laboratory, radioactive minerals, tests, and a chapter on theory. Ch 6, p 104-113, devoted to gemstones.

Esteemed work, reprints in 1961, '64, '66, and '68, after which rights reverted to author.

2406. -----1972, reprinted

Ultraviolet Guide To Minerals |...| by | Sterling Gleason, M.A. | Los Angeles Mineralogical Society | Ultra-Violet Products, Inc. | San Gabriel, California 91778 | Specialists In Ultraviolet Since 1932 [1972]

Cementb: plasticized wrap, inward fold flaps. 21.2 x 14 cm(8 3/8 x 5 1/2 in). Flush cut. $5.95. JSL. Identical text.

2407. GLEBA, PETER

Massachusetts | Mineral And | Fossil Localities | [map] | Compiled By | Peter Gleba. | 1978 [Wrap title only; Krueger Enterprises, Inc., Cambridge, Mass.]

Plastic cylindrical binding: [2], 117 p, interrupted by maps on unnumb pages; 10 maps. Pale yellow wrap. 28 x 21.5 cm(11 x 8 1/2 in). Cut. LC 78-106744. JSL. Includes gemstone localities.

2408. GLENDINING & CO., LIMITED Catalogue of a Fine Collection of Chinese Snuff Bottles, Japanese Netsuke, Oriental China, Oriental Brasses, etc., The Property of the Estate of the late R.Gordon Smith, of Kobe. For Sale by Auction At Our Galleries, 7 Argyll Street, Oxford Circus, W. On Monday, Tuesday And Wednesday, October 18th, 19th and 20th, 1920... Edgestapled: 45, [3] p; 5 photo pls. Printed green wrap. 24.8 x 18.4 cm(9 3/4 x 7 1/4 in).Cut. Almost all space devoted to snuff bottles carved from many kinds of stone and gemstone materials, also ivory, amber, ceramics, etc. Good quality plates.

2409. GLICK, JOEL & LORUSSO, JULIA

"Healing | Stoned" | [orn] | the therapeutic use of gems & minerals | joel glick & julia lorusso [entire title sic!; Miami Shores, Florida: Mineral Perspectives, 1976]

Cementb: [8], 92 p; ch orns. Tan wrap, red cut gems & rays, purple lett on cover; similar spine; back cover resume, signs, nebula, rays. 22.9 x 15.2 cm(9 x 6 in). Cut. JSL.

Much of the text is based on Hindu beliefs in the powers of gemstones but no sources are acknowledged and no references to other works given. The text is turgid, obscure, rambling, and filled with lofty-sounding language which upon analysis is unintelligible. Treats the influences upon mind & body from auras emanating from gemstones, astrological significance of gemstones, gemstones useful for the purposes claimed by the authors, although a number can scarcely have any history behind them as benitoite, cacoxenite, hiddenite, and others, metals used with gemstones, elixirs, and amulets.

2410. GLINKA, S F Amazonskii kamen iz kopi Melnikova. *S Peterburg Mineralogicheskogo Kabineta Moskovskogo Universiteta za* 1917 g, 1919, 32-97. Not seen.

GLOCKER, ERNST FRIEDRICH(1793-1858)

Ger mineralogist; PhD; docent & prof mineralogy Breslau U. Pogg I, 912-3.

2411. -----1824

De Gemmis Plinii, | Imprimis | De Topazio. | [rule] | Oryctologiae Plinianae | Specimen Primum. | [rule] | Scripsit | Ernestus Fridericus Glocker, | Philosophiae Doctor, Gymnasii Magdal. Vratislav. | Collega, Societ.Magn. Duc.Mineralog.Jenensis | Assessor, Soc.Nat.Scrutat.Halens., Silesiacae, | Culturae Patriae Inservientis, Et Regiae | Botan.Ratisbon.Sodalis. | [rule] | Vratislaviae, | Apud Jos.Max Et Soc. | MDCCCXXIV. [Bratislava, 1824]

8°: [4], 74, [1], [1 blank]p. 20.3 x 11.8 cm(7 5/8 x 4 5/8 in). Cropped. USCS Kunz Coll, GS 33-213(gives 21 1/2 cm); BM(NH).

Cont: tp; tab cont; pref; text; corrigenda; blank p.

The first in what seems to have been a projected series of commentaries on minerals treated by Pliny in his Natural history; I have not been able to learn if Glocker published more. The purpose of this work was to identify Pliny's minerals with modern species and to draw such comparisons with the latter as would further this aim. Glocker gives a general history of the knowledge of minerals and gemstones, and that incorporated in Pliny, and specifically commenting upon topaz. Scholarly, detailed, many citations of previous authorities in footnotes. Rare.

2412. -----1829 Über den schlesischen Hyalith, besonders über einige neu entdeckte Formen derselben, so wie über dessen Vorkommen und Entstehung. *Nova Acta Physico-Medica Academia Caesarea Leopoldino Carolina*, etc., Bonn, vol 44, part 1, 1829, 545-72, litho pl 33(15 figs). On the transparent, globular growths of colorless hyalite opal of Silesia with the plate showing the growths developed upon rock fracture surfaces and edges. Glocker's description extends to p 568 with the remainder being an addendum by J Noeggerath, p 569-72.

GLÖCKNER, WERNER, see SCHLEE, D & GLÖCKNER, W

2413. GLOVER, J E, edit Kimberlites and diamonds. *U West Austral, Geol Dept & Extension Service Publ* 5, 1981. Papers presented at seminar, Dec 3, 1979, Nedlands, Australia. Contains: GLOVER, J E, A selected bibliography for exploration geologists, p 96-123. Not seen.

2414. GLOVER, SHELDON LATTA(1891-) Origin and occurrence of gem stones in Washington. *State of Wash, Div Mines S Geol Rept Invest* 16, 32 p, 1949. Centerstapled, wrap with title, 22 x 14 cm(8 5/8 x 5 1/2 in). $.25. LC A 49-10530. JSL. Gives descriptions and generalized statements about occurrences of crystalline and cryptocrystalline quartzes, with remarks on origin and guides to regions in the state where they may be found, the latter given specifically, county by county. Much on agate, chalcedony, petrified wood, but also includes calcite onyx, peridot, thulite, turquoise, garnet, and obsidian. Facsimile reprint, in wrap, by The Shorey Book Store, Seattle, 1964, $1.00.

GMELIN, JOHANN FRIEDRICH(1748-1804)

Ger naturalist & writer; b Tübingen; MD, prof medical sciences Göttingen U ca 30 yrs; noted works include 9-vol dict of botany, 3-vol hist of nat sci; edited 13th edit Linnaeus' *Systema naturae*, 1788-93, and as shown below, wrote the mineralogy part of 12th edit; works listed in *Biogr Univ*, 17, 530-2; DSB 5, 427-9.

2415.-----1777-1779

Des | Ritters Carl von Linne' | Königlich schwedischen Leibarztes &c. &c. | vollständiges | Natursystem | Des | Mineralreichs | nach | der zwölften lateinischen Ausgabe | In einer | freyen und vermehrten Uebersetzung | von | Johann Friederich [sic] Gmelin, |... | Erster[-Vierter] Theil |...| Nürnberg, bey Gabriel Nicolaus Raspe, 1777[-79].

8°: I: [4], 658, [8]p, 5 engrav pls; II: [16], 496 p, 9 pls; III: [16], 486 p, 12[recte, 13]pls; IV: LXIV, 548, [10]p; 30 pls(many pls folding). 19.8 x 11.8 cm(7 3/4 x 4 5/8 in). Cropped. JSL. Agassiz III, 69.

Cont: I: tp, pref, text; errata, pls; II: tp, pref, adverts; text; pls; III: tp, pref; text; pls; IV: tp; pref (inc]udes an essay on hydrology & an extensive list of references to same); text; index to all parts; errata; pls.

A broad-ranging work on mineralogy, based on Linnaeus' system of classification, but with considerable new material added and revisions. The first volume is perhaps of greatest interest here inasmuch as it discusses the progress of systematics as applied to mineralogy from writers in the 16th century onward, and then lists in a remarkable bibliography several hundred works dealing with all aspects of mineralogy up to the late 18th century. This volume also includes "stones," that is, marbles, alabasters, serpentine, nephrite, quartzes, chalcedonic quartzes, opal, obsidian, and architectural stones. The second volume takes up "salts" but includes descriptions of crystalline varieties of quartz, zircon, topaz, ruby, sapphire, chrysoberyl, beryl, tourmaline, garnet, fluorite, diamond, spinel, and other gemstones. Volume three is largely on metals and their ores but includes a section on fossils, and more on fossils appears in the 4th and last volume, the last also treating a miscellany of earths, clays, other unconsolidated materials, etc. The engraved plates, mostly folding, are quaintly attractive and include crystals drawn in stylized forms resembling those in Romé Delisle, as well as natural crystals and groups, more or less realistically rendered. There are also outline drawings of "unfolded" crystal models from which one could lay-out similar drawings on paper and make solid models by folding up and pasting joints, Other attractive plates show fossils, landscape agates and scenes in stones, and petrified woods. Gmelin criticizes other schemes of classification in the first volume but this one, because it is based on external appearances, is as confusing as any. A 13th edition, not seen, was issued in 3 volumes, 8°, in 1788-93. A scarce mineralogical work.

2416. GNEVUSHEV, M A Yakutskie almazy. Gosudarstvennoe Uchevo-Pedagogicheskoe Izdatelstvo, Ministerstva Prosveshcheniya RSFSR, Moskva, 1963. 16°: 102, [2]p, 14 fig(maps & cross-sects); black wrap, 19.7 x 12.7 cm(7 3/4 x 5 in). Cut. 14 k. Popular account of the explorations leading up to the discovery of the Yakutian diamond pipes; 9 annot refs to Yakutian geology and diamonds.

GNEVUSHEV, M A, see BOBRIEVICH, A P, et al, 1959

GÖBEL, G, see BIBOA

2417. GOBINEAU, JOSEPH ARTHUR, Comte de (1816-1882) Catalogue d'une collection d'intailles asiatiques. *Rev Archeol*, Paris, ns, vol 27, 1874, p 111-25, 175-90, 238-48, 310-31, 379-88; not seen.

2418. GODRON, D A Les perles de la Vologne, et le Château-sur-perle. *Mém de l'Acad de Stanislas*, Nancy, 1869(1870) p 10-30. Not seen: Kunz & Stevenson, *Book of the Pearl* biblio.

2419. GOEBEL, CARL CHRISTIAN TRAUGOTT FRIEDEMANN(1794-1851) Bemerkungen über das Vorkommen der Diamanten in Ural-Gebirge, und chemische Zerlegung einiger Gesteine von dem Fundorte der Diamanten, und aus einer ihm ähnlichen Gegend im Gouvernement Olonez. Riga, 1830. 4°. See ENGELHARDT, M. Not seen; from BM(NH) catalog.

2420. GOEBEL, or GÖBEL, SEVERIN(1530-1612)

De Svccino | Libri dvo, Avthore | Seuerino Goebelis, Medi- | co Doctore. | Horvm Prior Liber | continet piam commonefactionem, de passio- | ne, resurrectione, ac beneficijs Christi, | quae in historia Succini de- | pinguntur. | Posterior veram de origine Succini ad- | dit sentientiam. | [orn] | Tetrastichon in hos libros Conradi Gesneri Tigurini. |... [4 lines, Greek quot] [Francofordiae ad Maenium = Frankfurt am Main, 1558?]

8°: [2], 30 [recte, 31], [5] f, last p blank; f 31 misnumbered "30." 16.3 x 10.2 cm(6 1/2 x 4 in). Cut. USGS Kunz Coll. GS 34-452; Ward & Carozzi 930; DeGolyer Coll, U Okla.

Cont: tp; dedic; text in 2 bks; ltrs on bitumen, naphtha, etc.; blank p.

One of the earliest treatises on amber but not highly regarded by J F John, *Naturgeschichte des Succins*, p 56, who notes that the first book contains "wild religious [mystic?] fancies," but that the second book, apparently held in higher esteem, discusses the origin of amber according to previous writers and contains the reasons why Goebel believes that amber is a kind of congealed bituminous petroleum which issues from the inner part of the earth and thus appears upon the sea floor. This work, with additions, was reissued by Goebel's son in 1616 but "is of the same opinion," ibid, p 58. Adams remarks upon the religious fancies mentioned by John in his *Birth and Development of the Geological Sciences*, p 471-2, and also notes that Gesner included this work in his *De omni rereum fossilium* of 1565, which see, and that Goebel, because of seeing the many shapes and forms assumed by clouds of inclusions in amber, some resembling scenes and figures, devoted the first book "entirely to an exposition of the fact (or the author's conviction) that in the forms and pictures which they present is to be found a complete allegorical exposition or revelation of the teachings of Christianity." In addition to the 1616 revised edition mentioned, another, also not seen, appeared in 1582. G R v Bock, 1981, 9 179, mentions an edition of 1566, perhaps an offprint from Gesner, while Gatterer II, 152-3, mentions editions of 1567 and 1616. Goebel was a native of Königsberg, a medical doctor, and a professor of medicine in that city.

2421. GOEBELER, HEINZ Von edlen Steinen. Einführung in die Edelsteinkunde. Beckum. Öffentlich bestelltes und vereidigter Sachverständiger für Edelsteine, 1951. [priv publ]. Edge-stapled: [4], 51, [3 blank]p; an actual b&w photo of a quartz crystal group is cemented to a blank f facing title; col wrap. 20.3 x 14.6 cm(8 x 5 3/4 in). Cheap, perishing paper. DM 4.20. Rev *J Gemm*, 3, 5, 1952, 194; C Chudoba, *Der Aufschluss*, 3, 1, 1952, 15. General remarks on the formation of minerals, lapidary work identification procedures, descriptions, nomenclature, curious lore, imitations, etc.

GOEPPERT, H R , see GÖPPERT, H R

2422. GOESEL, JOHN GEORGE(1827-)

Minerals And Metals | A Reference-Book | Useful Data And Tables Of Information | On | Legal, Customary, And Scientific

Measurements; | Geological Classification; Rock Composition; | Chemistry, Dry And Wet Assay; Mineralogy; | Metallurgy; Metal Founding And Plating; Hydraulics; | Water Purification; Mineral Oils; Gases; Explosives; | Strength Of Materials, Including Woods, Their | Properties, Adaptability, And Preservation; | Pigments, Gums, And Solvents For Paints And Varnishes; | Miscellaneous Data And Receipts | A Condensed Compilation From Various Sources | By J.G.Goesel, M.E. | First Edition | First Thousand | New York | John Wiley & Sons | London: Chapman & Hall, Limited | 1906

8°: blank f supplied + xii, 287 p + [5 blank]p; Black leather, limp bds; gold lett spine; dk brown endp. 16.8 x 10.5 cm(6 5/8 x 4 1/8 in). Aeg; cover corners rounded, leaves rounded. JSL. LC 6-18346.

Cont: blank f; tp; publ data; pref; tab cont; 55 chs; index; 2 blank f.

Compiles high-quality data, Including a surprisingly large amount of information on gemstones in Ch 34, p 116-37.

2423. GOETTE, JOHN ANDREW(1896-)

Jade Lore | by | John Goette | [yü symbol in green] | Kelly And Walsh, Limited | Shanghai - Hong Kong - Singapore | 1936

8°: [16], 321, [3 blank]p; col front pl with tissue, tip-in; 101 figs (includes map, 5 sketches). Green cloth, large jade symbol in gold on cover; gold lett & rules on spine. 24.6 x 19 cm(9 3/4 x 7 1/2 in). Cut. JSL.

Cont: 1/2tp; dedic; pl; tp; fwd; tab cont; ill list; poem; 16 chs(the last is biblio, p 300-9, 201 entries); index; 3 blank p.

Extremely interesting and most useful work from the pen of an ardent collector of jade during a long residence in China. While the scientific value of this work was dismissed by Hansford, *Chinese Jade Carving*, in his bibliographical notes, it is of substantial value because of providing firsthand accounts of jade markets in China, carving, and other details of historical importance, not to mention many interesting illustrations. It is written in informal style and treats a very wide variety of topics from the history of jade, its nature and sources, modern carving methods, types of objects, curious lore, to such practical matters as prized colors in jades, imitations and substitutes, and excellent advice for the would-be collector. Chapter 5 is of value for its translation by Goette of a little-known Chinese work entitled "A Record of Jade" by Ch'en Hsing. The extensive bibliography is valuable for its inclusion of older Chinese works on jade but the entries are so brief that they are not helpful to the researcher except as suggestions for further search.

2424. -----1936(?), American edit

Jade Lore |...| a John Day book | Reynal & Hitchcock | New York

Black cloth, lacquered, gold cover title with jade symbol in green; gold & green spine lett. Page size larger: 29.1 x 19 cm(10 1/4 x 7 1/2 in). Cut. Text same.JSL. Both versions are scarce and much in demand. Rev *G & G*, 2, 6, 1937, 105; comment in Born, 135; rev *Bull Minnesota Inst of Arts*, vol 26, 1937, 86-9, ill.

2425.-----1976, 2nd edit Jade Lore. Ann Arbor, Michigan: Ars Ceramica, ca 1976, xvii, 321 p, ill, col pls; green cloth, Cover title, spine title. ISBN 0-89344-009-4; LC 76-21489. $25.00. Not seen, from Born, 135-6, "complete facsimile of the original edition with the addition of an introduction by William C.Hu, and the replacement of several plates that were poorly done in the original."

GOETZKE, OTTO, see GILBERT, A H

2426. GOLD COAST (COLONY) GEOLOGICAL SURVEY... Report on the discovery of diamonds at Abomoso, north west of Kibbi, eastern province, Gold Coast... Accra, Government press, 1919. 40 p, 32 cm. At head of title: "Gold Coast. ix. 1918-1819." Not seen: GS 21-395.

2427. GOLD UND SILBER Edelsteinkunde. Ein Kursus für Geschäft und Werkstatt. No 1- 12, 1965; 1-9, 11, 12, 1966; 2-9, 11, 12, 1967; 1-3, 5, 1968. Altogether 90 pages; not seen. Perlenkunde. Ein Kursus für Goldschmiede. No 1-9, 11, 12, 1967; 1, 2, 4, 1968; 28 p, ill; not seen. Entwurf einer skandinavischen Diamant-Nomenklatur, no 2, 1969, 16 p, not seen.

2428. GOLDMANN, CHARLES SYDNEY South African mines; their position, results, and developments, together with an account of diamond, land, finance, and kindred concerns. By Charles Sydney Goldmann, FRGS, with the co-operation of Joseph Kitchin. Vol I Rand mining companies; II miscellaneous companies; III maps and plans. London: Effingham Wilson & Co., Royal Exchange, EC Johannesburg: Argus Printing & Publishing Company, Ltd 1895-6. Not seen; from Mendelssohn.

GOLDSCHMIDT, A, see AURIFABER, A

2429. GOLDSCHMIDT, VIKTOR, also VICTOR, MORITZ(1853-1933) & BRAUNS, REINHARD Über Lichtkreise und Lichtknoten an Kristallkugeln. *N Jb Min*, B-Bd 31, 1911, 220- 42, 13 fig, Pl 3. JSL. Investigates the origin and orientation of chatoyant light streaks and intersections, that is, cat's-eye and star effects, in aquamarine, almandine garnet, rose quartz, oligoclase sunstone, and sapphire as observed on spheres cut from these materials.

GOLDSCHMIDT, V, see NIES, A, also FERSMAN, A E, 1911

GOLDSMITH... FABERGÉ, see KEITH, D G

2430. GOLOMZIK, ARTUR IVANOVICH

Rodonit | A.Golomzik | [col photo of rhodonite] | Sverdlovsk | Sredne- Uralskoe | Knizhnoe Izdatelstvo | 1983 [facing title recto:]

Rhodonite | A.Golomzik | [col photo of urn] | Sverdlovsk | Mid-Urals Publishing | House | 1983

Title in pale brown & black; photos framed in pale brown. In series "Kamni Urala" or "Ural Gems."

8°: 158, [2]p; ca 225 col photos(several doublep). Pale brown plasticized paper over bds; col photo rhodonite rough on cover with gold titles & salamander logo; gold spine title. Pale brown endp. 29.1 x 24.7 cm(11 1/2 x 9 3/4 in). Glossy paper; some backgrounds pale brown; headings in pale tan. Cut. In pale brown cardbd slipcase, col photos & gold titles on both sides & spine. 50,000 copies. 15r. Si Frazier libr.

Cont: 1/2tp; tps; edit staff; front photos; text & catalog; append tp; author pref; historical notes on deposits; abbrev; gloss; ill list; publ data.

A beautifully produced work celebrating the famous Russian "orletz" or rhodonite which is found in several deposits in the Ural Mountains. This massive, attractively black-veined pink to red material was highly esteemed in Tsarist times for the manufacture of numerous small to large objects, assembled pieces, and carvings. Some very recent work is included. For a change, this book, designed and manufactured in the USSR, displays tasteful design, careful workmanship, and excellent photo-reproduction in addition to giving useful information on the material itself and its occurrences. On the whole, the book must be regarded as a pictorial essay in the multiple uses of rhodonite for decoration but it does include photographs of rough specimens and scenes in the vicinity of mines. Photo captions are in Russian & English.

2431. GOLOWIN, SERGIUS

Sergius Golowin | Edelsteine - | Kristallpforten zur Zeele | Traumreisen und Meditationen | mit Edelsteinen | [logo] | Verlag Hermann Bauer | Freiburg im Breisgau [1986]

Cementb: 271, [1]p; many text photos & woodcut reproductions(from antique books), Bright blue cloth-type paper over bds; white spine title; col dj, resume, vita. Pale tan-yellow charcoal-type endp. 21.5 x 13.6 cm(8 1/2 x 5 3/8 in). ISBN 3-7626-0297-2. Si Frazier libr.

Cont: 1/2tp; tp; publ data; tab cont; pref; text; tabs; refs & notes; ill credits; other bk of author.

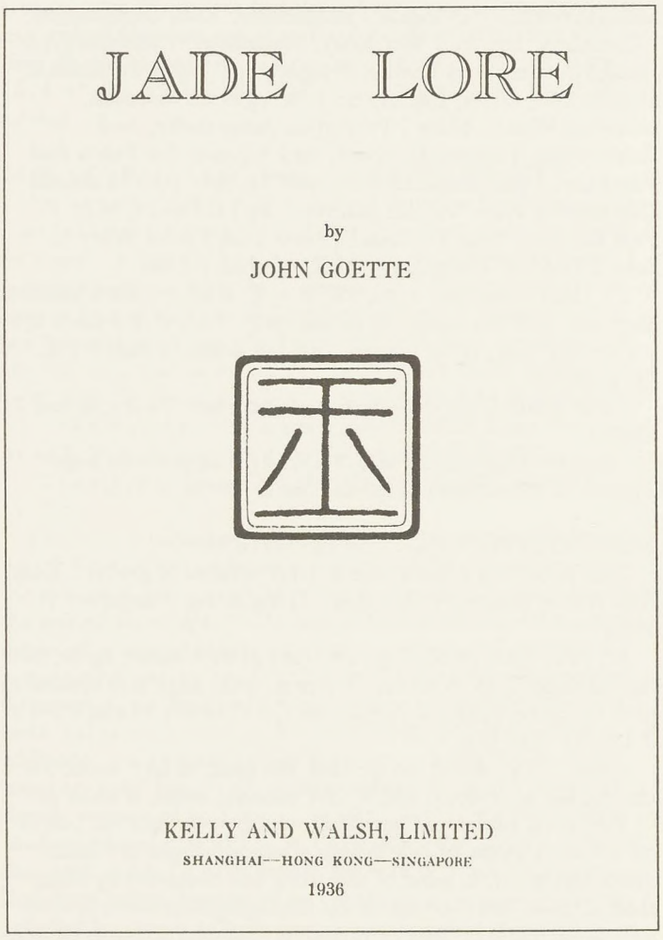
A very detailed, thorough tracing from antiquity to the present of the supernatural beliefs which ultimately lodged in gemstones. There are numerous short essays on the development of such beliefs and their manifestations in jewelry, or in other ohjects of reverence or symbolism, and also on the foundations of beliefs in the connections between gemstones and celestial objects. The pictures are interesting, especially those taken from very old works on lore. For the student interested in gemstone lore, this book will prove to be highly rewarding reading.

2432. GOMES JARDIM, CATÃO

The Diamond Fields | Of Grão Mogól | [double rule] | Extract Of Report On | Diamond Deposits & Mines | In the Grão Mogól Region | [orns] Minas Geraes, Brazil [orns] | [rule] Made For [rule] | The Brazilian Diamond, Gold and | Developing Company of the United States | [rule] By [rule] | Dr. Catão Gomes Jardim | Former State Engineer of Mineral Lands of the State of Minas Geraes; Officer of the | French Academy; Member of the Geographical-Commercial Society of Paris [orns] | [orn] | [double rule] | Diamantina, 1903 | [union symbol] | John Anderson Publishing Co., Printers | 183-185-187 North Peoria Street, Chicago [title in orn frame; wrap title]

Centerstapled: 7, [1]p; doublep sketch map of region. Pale green print wrap. 25.8 x 17.5 cm(10 1/4 x 6 7/8 in). Cut. JSL.

Provides a general geological-geographical description of the region, the groups of alluvial mines, detailed description of the Itacambira slopes, the basin of the Rio Itacambirussu and the valley of the Jequitinhonha River. The inside front wrapper describes the financial status of the company.



2423. Interesting and still useful study of Chinese jades by one who avidly collected them on the spot

2433. GOMILEVSKI, E V Ob izumrudnykh kopyakh i dobyche izumrudov v Monetnoi Dache na Urale. *Gornyi Zhurnal*, ch 1, 1914, p 140-65. On the emerald mines of the Monetnoy Estate in the Urals and their prized emeralds. Not seen.

2434. GOMON, GRIGORII OSIPOVICH

G.O.Gomon | Almazy | Opticheskie | Svoistva | I | Klassifikatsiya | [logo] | Izdatelstvo "Mashinostroenie" | Moskva 1966 Leningrad

8°: 145, [3]p; 90 fig (1 fold); 29 tab. White wrap with "ALMAZY" in pale green overprint on cover title in black. 21.6 x 14.3 cm(8 1/2 x 5 5/8 in). Cut. 50k. 8,000 copies. JSL.

Cont: tp; resume; pref; introd; 6 chs; biblio(p 142-6, 82 entries); tab cont; publ data.

Study of optical properties of diamonds and their classification into types according to luminescent and other phenomena. Includes conductivity, photoelectric properties, and other behavior based on internal structures and inclusions of foreign atoms in the lattice.

2435. GONNARD, FERDINAND Sur les gisements gemmifères du Velay et de la basse Auvergne, leur distribution

géographique dans ces deux régions, et leurs rapports au point de vue des associations minérales qu'ils renferment. In; *Bull Soc Fr Min*, 33, 1910, 152-61. JSL. Zircons, garnets, and sapphires, some of gem quality, occur in two areas in Haute-Loire province, France, in the arrondisements of Puy and Brioude. Pogg. 4, 512-3.

2436. GONNELLI, JOSEPH

Thesaurus | Philosophicus, | Sev | De Gemmis | Et Lapidibus Pretiosis | Doctoris Physici | Josephi | Gonnelli | [3 orns] | Neapoli. M.DCCII. | Apud Joannem Baptistam Komarek. | [rule] | Superiorum Permissu. [1702]

12°: [24], 258, [3], [3 blank]p; a^{12}, A-L^{12}. Woodcut headpc; orn ints; ch orns. 13.5 x 7.1 cm(5 3/8 x 2 3/4 in). Cropped. R Hauck Coll(seen); De Golyer Coll, U Okla.

Cont: tp; dedic; publ ltr; sonnet; epigrams; pref; text; authorities cited p 225-34; publ permission; proposed regulations for a library; errata; 3 blank p.

The text is in three parts, the first on the nature of the lapidifying fluid, the second on coloration in gemstones, and the third on the role of water in the formation of minerals, but this part runs, without further division, into the descriptions of the gemstones which are arranged in alphabetical order conmencing with "adamas," p 72, and progressing through many others to p 224. Authorities and quotations or citations from same are sprinkled throughout the text and little seems attributable to Gonnelli alone. Among the numerous gemstones are a number cited from ancient literary sources and now unidentifiable. A very rare work.

GONSALVES, ALPHEU DINIZ, see DINIZ GONSALVES, A

2437. GOOD, EDWARD (trade pseudo of OYVED, MOYSHEH)

Cameos | and | Inspiration Jewellery | With 62 Illustrations | "A thing of beauty is a joy for ever." | Keats. | [orn] | By | Edward Good | "Cameo Corner" | 1, New Oxford Street | London, W.C. | 1914 | Copyright Price 1/- [title in single-rule frame]

8°: 46, [1], [1 blank]p; front wrap counted as p[1-2]; 2 col pls, 8 b&w pls, all counted in pag. 7 fig. Print wrap. 20.4 x 14.1 cm(8 x 5 1/2 in). Cut. LC 18-4971. JSL.

Cont: col pl; tp; tab cont; col pl; 8 chs; price list & advert; press notices; blank p.

In two parts, the first on cameos, the second on jewelry. Under cameos appear brief chapters on the art of collecting, the charm of the cameo, the effect of same, and the future of the cameo. Under "inspiration" jewelry, a term apparently coined by Good when it occurred to him to use ornamental watch parts in jewelry, are chapters on the history of the watch-cock, its mystery, and jewelry made from watch parts. Illustrated articles are offered for sale and prices given on p 40-2. Laudatory press notices, some running to considerable length, talk about cameos and Good's small shop known as "Cameo Corner." The history of the shop and how it came to pass that its owner assumed the trade name of Edward Good is amusingly recounted in Moysheh Oyved's *Visions & Jewels*, p 59-62, which see. The present catalog's origin is explained on p 70, wherein Oyved states "I brought out a beautiful, illustrated catalogue; *Cameos and Inspiration Jewellery*, which my good friend, that wonderful woman, Mrs Louisa Thomson-Price, helped me write... It was translated into the Chinese, for the National Museum at Peking."

2438. GOODCHILD, JOHN GEORGE(1844-1906)

Science and Art Department | [rule] | Edinburgh Museum Of Science And Art | Guide | To The | Collection Of Scottish Agates. | [coat-of-arms] | Glasgow: Printed By Jas. Hedderwick & Sons | For Her Majesty's Stationery Office. | Sold at the Museum. | 1899. | [rule] | Price Twopence. ["Written by Mr.J.G.Goodchild"]

Edgestapled: 24 p; gray-blue print wrap. 21.2 x 13.6 cm(8 3/8 x 5 3/8 in). Cut. LC 15-6939. Cont: tp; introd; text.

The introduction by R Murdoch Smith, Director, gives the history of the M F Heddle(1828-1887) collection of Scottish agates, which, upon his death, passed into the hands of Alexander Thoms. The latter, in 1898, presented 1,000 Heddle specimens to the museum. The guide was written by Goodchild in his capacity as Curator of the Collection of the Geological Survey of Scotland. Goodchild was of the opinion that the public knew little about the origin of the colorful local agates (and other agates, for that matter) and thus includes considerable information on same, which lifts this small work above the ordinary museum catalog and provides a useful précis of Goodchild's, Heddle's, and other authorities theorizing on the knotty problem of agate formation. Topics: the material of agate, morphology of nodules and other agglomerations, skins, type agates, special features. "tubes of escape," crystalline quartz centers, dendrites and other inclusions, coloration, geology of deposits, distribution, etc.

GOODCHILD, J G, see EDINBURGH. ROYAL SCOTTISH MUSEUM; also, HEDDLE, M F

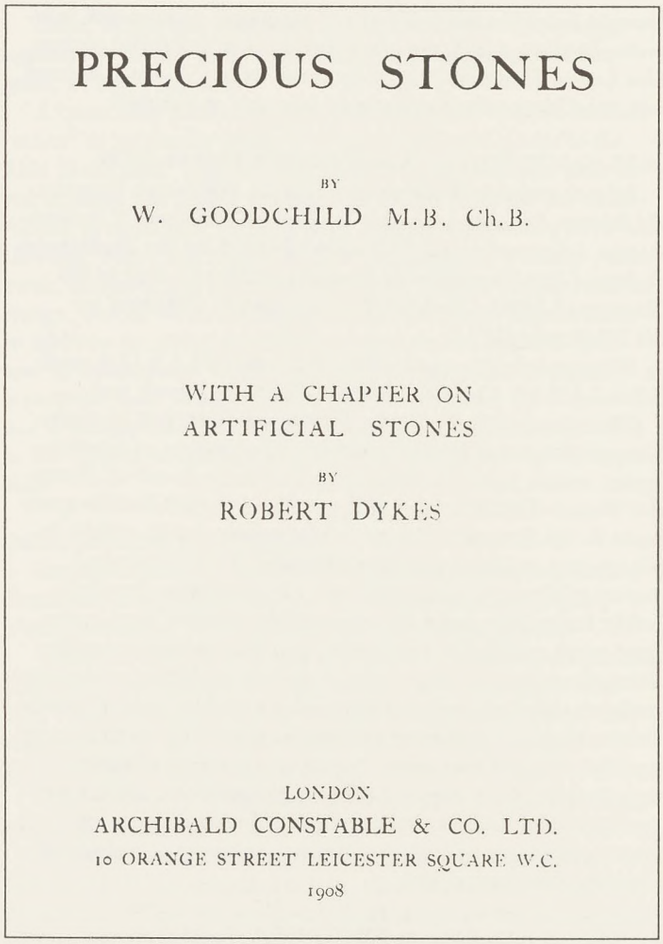
2439. GOODCHILD, WILBERT

Precious Stones | By | W. Goodchild M.B. Ch.B. | With A Chapter On | Artificial Stones | By | Robert Dykes | London | Archibald Constable & Co. Ltd. | 10 Orange Street Leicester Square W.C. | 1908 [in the "Westminster Series"]

8°: x, 309, [1 blank], 16 advert p; 42 fig. Dk green cloth, blind frame on cover enclosing gilt title, blind logo, & gilt series title; gold lett & rules spine. 20.5 x 14 cm(8 1/8 x 5 1/2 in). Cut. LC 8-32511. JSL.

Cont: 1/2tp & ser title; tp; print data; pref; tab cont; ill list; 14 chs; gloss; index; blank p; adverts.

The first third of this standard gemological text treats general matters, including historical notes on gemstones, their origin, properties, cutting, and imitations (by Dykes, Ch 5, p 67-92), with the remainder being descriptive gemology. Here are treated diamond, fluorite and opal, corundum, spinel and chysoberyl, calcite and feldspars, and other strange bedfellows. This odd lack of order is further compounded by the failure of the table of contents to list all of the species and varieties which may be found within the chapters and one must refer to the index to find them. However, when the substance of the text is examined, it will be found to be good solid fare worthy of perusal. The illustrations show crystal forms, some cut gems, and numerous examples of rough. I have examined other copies of this work


PRECIOUS STONES

BY

W. GOODCHILD M.B. Ch.B.

WITH A CHAPTER ON
ARTIFICIAL STONES

BY

ROBERT DYKES

LONDON
ARCHIBALD CONSTABLE & CO. LTD.
10 ORANGE STREET LEICESTER SQUARE W.C.
1908

2439. A standard work on gemology much used in the early part of the 20th century

which are believed to be reprintings, eg, medium and pale green cloth, stamped in black instead of gold, also in bright yellow-green of somewhat larger size, 21.5 x 14 cm(8 3/8 x 5 1/2 in), bottom edge trimmed.

2440. -----1908, New York

Precious Stones |...| Robert Dykes | [logo] | New York | D.Van Nostrand Company | 23 Murray And 27 Warren Streets | 1908

8°: x, 309, [1 blank], 8 advert p; text printed from same pls; spine bears Van Nostrand logo in gold; blind cover logo absent.

2441. GOODWIN, PETER

Ten Points About Pearls | A guide to prospective purchasers | By | Peter Goodwin | F.C.A. | Printed and Published By | South China Morning Post, Limited | 1-3 Wyndham St., Hong Kong. [nd; on market in 1957]

Centerstapled: [2], 12 p; stiff white paper wrap, nacreous stamping. 18.5 x 12.7 cm(7 1/4 x 5 in). Title-leaf wrapped around gathering and bound-in.

The ten points, each briefly yet usefully discussed, are shape, color, blemishes, luster, matching, graduation, drilling, clasp & threading, size & weight, and value & price. JSL.

2442. -----1957?

Points On Judging Jade | A guide to prospective purchasers |... nd; ca 1957]

Centerstapled: [2], 16 p. Pale blue, silver-luster stiff paper wrap, printed in raised green lett, and with iridescent geometric design in the paper. 18.5 x 12.7 cm(7 1/4 x 5 in). Cut. JSL.

The six points are identification, texture (as revealed by the nature of the polished surface), substitutes, other green stones and their distinction, value (quality, weight, and "spread" of "imperial jadeite" cut stones), value of the setting, plus a summary of the points made in the chapters. The entire booklet concerns only jewel-quality jadeite and not carvings or other ornaments. Sound, useful. Rev R Webster, *J Gemm*, 5, 4, 1955, 232.

GÖPPERT, or GOEPPERT, HEINRICH ROBERT(1800-1884)

Ger pharmacist, paleobotanist; prof med & botany U Breslau(Bratislava). L F Ward, "Sketch of Paleobotany," *5th Ann Rpt US Geol Survey, 1883-4*, 1885, p 373: "his work in vegetable paleontology exceeds by far all his other works in its value to science." Rev of principal works, *Leopoldina*, no 21, 1885, p 135-9, 149-54. life & works by Conwentz in *Schriften Naturforschenden Ges* Danzig, 6, 2, 1885, 253.

2443. -----1848 Ueber pflanzenähnliche Einschlüsse in den Chalcedonen. Vorgetragen in d botanischen Section der *Schleslschen Gesellschaft für vaterlandisch Cultur*, Regensburg, 7. Sept 1847, 1848, 1-29, engrav pl(6 fig); also in *Flora, oder Allgemeine Botanische Zeitung*, Jena, Bd 31, pl; and Archiv für *Mineralogie, Geognosie, Bergbau und Hüttenkunde*, Berlin, Bd 23, 1850, 73-112, Pl 1(6 fig). JSL. An extremely important article which disproves the supposed organic nature of plant-like inclusions in chalcedony. The first part examines in detail the speculations and remarks of many writers from Pliny and Orpheus to contemporaries of Göppert in respect to algal, mossy, etc remains thought to have been trapped in cavities in rocks and then subsequently enclosed in chalcedony. The various types of organisms are systematically described and then, in such materials as were available to Göppert, subjected to heating and chemical treatments to prove that their colors did not alter and hence were not organic in origin. Virtually all the significant literature on the subject up to the time of writing is cited and by itself forms a valuable research list for any further study. Not in the references cited by Roland W Brown, which see, who also wrote on this topic.

2444. -----1853 Über die Bernsteinflora und den Bernstein. *Bericht über die zur Bekanntmachung geeigneten Verhandlungen der Königlichen Preussischen Akademie der Wissenschaften zu Berlin*, 1853, p 440-76, also separate of 28 p. Not seen: from G R v Bock, 1981, p 174.

2445. -----1862 Ueber Einschlüsse im Diamant. [Breslau, 14 Dec 1962]. 4°: 84 p, 7 litho pls(part col), bound-in at end; 1 pl folding. 28.8 x 22.2 cm(11 3/8 x 8 3/4 in). Cut. Copy in

library, Industrial Diamond Information Bureau, London; possibly a preprint; see below for usual issue of this work.

2446. -----1864 Haarlem Ueber Einschlüsse im Diamant. *Natuurkundige Verhandelingen van de Hollandsche Maatschappij der Wetenschappen te Haarlem*, Tweede Verzameling, negentiende deel, Haarlem: De Erven Loosjes, 1864. 4°: p [I]-V, [6]-84; 7 litho pls, all printed on tan backgrounds, part col, one fold, bound-in. 29.4 x 22.4 cm(11 5/8 x 8 7/8 in). Cropped. BM(NH); USGS Kunz Coll, GS 34-914; JSL. Cont: series 1/2tp; series tp; tab cont; article title; quote; pref; 7 chs; pls.

On the basis of studies of inclusions in diamonds which to him resemble organic remains, and the occurrence of diamonds "primarily" in itacolumite rock and "secondarily" in alluvia, Göppert concludes that the inclusions are actually organic in nature and that diamond formed in "Neptunian" rather than "Plutonian" processes. A valuable feature of this paper is his review of the statements previously made by many authorities on the problem of the true matrix of the diamond, from Newton to Cagniard De Latour. None of the kimberlitic occurrences were known at the time and the close association of diamond with the detritus of metamorphic rocks excuses to some extent Göppert's erroneous conclusion. The handsome plates show numerous smaller illustrations, some tinted, some fully colored, of inclusions observed in rough and cut diamonds in his own collection. The inclusions are botanically identified! There are also excellent drawings of diamond crystal surface markings. Shortly after the publication of this paper, the discoveries of diamond in South Africa established the true matrix of diamond and dispelled the notion that inclussions therein were organic in origin.

2447. GÖPPERT, HEINRICH ROBERT & BERENDT, GEORG CARL(1790-1850)

Der | Bernstein | und | die in ihm befindlichen | Pflanzenreste der Vorwelt | bearbeitet | von | Professor Dr.H.R.Goeppert | in Breslau | und | Dr.G.C. Berendt | in Danzig | [rule] | Mit sieben lithographirten Tafeln. | [rule] | [quadruple rule] | Berlin, | In Commission der Nicolaischen Buchhandlung. | 1845. | [rule] | Druck der Gerhardschen Officin in Danzig.

Abtheilung I.: Erster Band, *Die im Bernstein befindlichen Organischen Reste der Vorwelt*... herausgegeben von Dr.Georg Carl Berendt, Berlin, 1845 (see BERENDT, G C, for full title).

2°: [8], IV, 125, [1]p; 7 part hand-col litho pls bound-in at end + tip-in slip bearing announcement of Berendt's sale of amber inclusion specimens. 39.8 x 29 cm(15 3/4 x 11 1/8 in). Cropped. JSL.

Cont: ser tp; dedic; fwd; text; pls explan; tab cont; errata; pls; slip.

The first monograph of the series edited by Berendt on the paleontology of Baltic amber. The first part, by Berendt, describes the physiography, historical geology, and formations of the "Amber Land," with descriptions of amber deposits. The second part by the same author provides a valuable treatise on amber and begins with a summary of older views on the origin and nature of amber, amber-like resins in general, distribution world-wide, origin and type deposits, nature of amber, etc., while the third part, also by Berendt, considers inclusions generally, with a table of the insect species identified in same. The fourth part, by Göppert, studies the amber-producing tree and the amber produced from same, and with the final part by him also, providing a survey of the plant remains with extended, detailed descriptions under appropriate taxonomic headings. The large, clear plates are exquisitely-detailed drawings of wood remains, cell structure in wood, cones, flowers, fruits, and other vegetable remnants found in amber which are not part of the amber tree. A magnificent and beautifully-illustrated work which drew this comment from Scudder, *Bibliogr fossil insects*, p 64: "contains an important chapter, pp. 41-60, by Dr.Berendt... treating of insects from p.46 on, with many details and generalizations of interest, giving the first extended review of amber insects."

2448. GÖPPERT, H R & MENGE, ANTON Die Flora des Bernsteins und ihre Beziehungen zur Flora der Tertiärformation und der Gegenwart. Mit Unterstützung des Westpreussischen Provinziallandestages, herausgegeben von der Naturforschendend Gesellschaft in Danzig. Danzig, Commissions Verlag von W.Engelmann in Leipzig, 1833-86. 2 v, frontportr), 23 pls(part col). 32 1/2 - 34 cm. Pls accompanied by guard sheet with descriptive letterpress. "Nach deren hinscheiden selbstständig bearbeitet und fortgesetzt, von H.Conwentz," tp v 2, "Verzeichniss der Schriften über Bernstein und dessen Einschlüsse, von Goeppert und Menge": v 1, p 63. Cont: I Bd Von den Bernstein-Coniferen insbesondere auch in ihren Beziehungen zu den Coniferen der Gegenwart. - 2 Bd Die Angiospermen des Bernstein. Not seen; from USCS Kunz Coll, GS 34- 606. Ref by L F Ward *8th Ann Rept USGS for 1886-87 1889*, p 759. See also BM(NH) Cat.

GORCEIX, HENRIQUE or HENRI (1842-1919)

Braz geol/mineralogist; directed School of Mines, Ouro Preto.

2449. -----1881 Estudo geologico das jazidas de topazios da provincia de Minas Geraes. *Anais da Escola de Minas de Ouro Preto*, 1, 1881, 13-34. Not seen.

2450. -----1882 Étude géologique des gisements de topazes de la province de Minas Geraes, Brésil. *Ann Scient l'École Normal Supérieure*, Paris, 2 ser, v 11, 1882, 1-32, 2 maps. Not seen. Gonsalves, *Biblio Brasil*, 1928, 85.

2451. -----1882 Brazilian diamonds and their origin. *Popular Sci Monthly*, New York, 21, 1882, 610-20. Describes diamond occurrences around Diamantina, Minas Gerais: nature & distribution of local rocks, history of discoveries, nature of stream beds and alluvial deposits containing diamonds, mining methods, production figures, speculations on origin of diamonds.

2452. -----1908 Les ressources minérales du Brésil, leur utilisation, *Bull Soc Géographie Commerciale de Paris*, extract of 38 p, 1908. Discusses at some length the history of diamond production in Brazil. Not seen.

GORDON, A J, see BROWN, R S

2453. GORDON, CYRUS H Western Asiatic seals in the Walters Art Gallery. Separate; from wrap: "Reprinted From

Iraq, Volume VI Part I Spring 1939, Published by the British School Of Archaeology in Iraq." 8°: 34 p + pls II-XV(127 photos, printed recto on 14 bound-in f). Pale maroon print wrap. 27.4 x 18.8 cm(10 3/4 x 7 3/8 in). Cut. JSL. History of the collection of 128 pieces; "interestingly varied...[but]... unfortunately, there is no record of where any of the seals were found; all were purchased from dealers." Descriptions and excellent photos; considerable number of pieces shown as plaster impressions.

2454. GORDON, ROBERT On the ruby mines near Mogok, Burma. *Proc Roy Geogr Soc*, London, read at evening mtg Feb 27th 188, no 5, May 1888, p 261-75. Includes a fold, tinted topo map(hachured) plate showing the part of Burma comprising the Ruby Mines District, with mine locations indicated. Historical remarks, geography, access, land & culture features, mining industry, types of mines, rubies, rainfall, discussion. Concise, useful and valuable for its eye-witness character.

GORDON, SAMUEL GEORGE (1897-1952)

Amer mineralogist; largely self-educ in chosen field; stud under V Goldschmidt, Heidelberg; Jessup Student, Academy of Natural Sciences, Philadelphia 1913, later curator in the acad; wrote *Mineralogy of Pennsylvania* when not yet 24; many field trips to South America, Greenland, Africa; described numerous new mineral species. Mem by W Parris, *Amer Min*, 38, 3/4, 1953, 301-8 with writings ca 90 entries; also *R & M*, 16, 10, 1941, 366.

2455. -----1922

Special Publication No.1 | The Academy of Natural Sciences of Philadelphia | The | Mineralogy | Of | Pennsylvania | By | Samuel G.Gordon | [rule] | Philadelphia | 1922

8°: 255, iv p; tip-in photo front pl; 119 text fig(crystal drawings); 2 tab. Black cloth, gilt spine title, also in heavy brown paper wrap, title on cover. 25.7 x 17.4 cm(10 1/8 x 6 7/8 in). Cut. Errata slip(p 6). JSL; LC 23-1071.

In the descriptive portion appear gemstones as corundum, many varieties of crystalline and cryptocrystalline quartz, several varieties of feldspar, also serpentine, and titanite. Localities in second part, by county. Extensive biblio, p 240-55, over 259 entries.

2456. -----1954? Reprinted by The Mineralogical Society of Pennsylvania, no date, ca 1954. 8°: [1 blank], [1 front]f + [4]p. + p 5-255 + iv p. Pale gray print wrap. 25.8 x 17 cm(10 1/8 x 6 3/4 in). Cut. 300 copies only! JSL.

2457. -----1959 Reprinted by the Academy. Titlep now bears self-stick label reading "Published in the U.S.A. | by | Dover Publications, Inc. | 180 Varick Street | New York 14, New York" This label covers the word "Philadelphia." Cover title reads "An A.N.S.P. Reprint - No.1" Cementb: [1] f front pl + 255, iv p. 22.7 x 15 cm(9 x 6 in). Bright yellow wrap, title & sketch on cover. $2.00. JSL.

2458. -----1945 The inspection and grading of quartz. *Amer Min*, 30, 5/6, 1945, 269-90, 35 fig. JSL. Nearly all of interest to the gemologist: twinning in quartz, types, how detected, inclusions in quartz, other defects barring usefulness for piezoelectric wafers.

2459. GORDON, W T A note on some large diamonds recently recovered from the gravels of the Woyie River, Sierra Leone. *Bull Imperial Inst*, London, 43, 2, 1945, 111-20, pls 3-4, 6 fig, JSL. Also in reprint: pale brown wrap, centersewn, 23.3 x 14.9 cm(9 1/8 x 5 7/8 in). 1 s. JSL. Describes, depicts, and diagrams surface features of three exceptionally large diamond crystals recovered from gravel deposits of the Woyie River. The weights are 779.00, 532.00, and 249.25 carats. One plate shows mine workings, the other 7 photos of the diamonds while the text figures are drawings.

2460. GORER, EDGAR & BLACKER, J F Chinese porcelain and hard stones, illustrated by two hundred and fifty-four pages of gems of Chinese ceramic and glyptic art, by Edgar Gorer, J F Blacker... London: B Quaritch, 1911. Added title in French; text in English and French. 2 vol. 254 pls(most in col, part fold). 32 1/2 cm. Dark green leather. A deluxe edition was bound in 4 vol. The standard edition limited to 1,000 copies. Group 12 of vol 2 on Chinese hard stone carvings; pls 230-47 are of jades which the authors believe to be the first color pictures of the objects. Jades mostly Ch'ien Lung. Not seen: from Born, 138.

2461. GORHAM COMPANY, THE

Precious Stones | An Illustrated Monograph | [orn] | The Gorham Company | Fifth Avenue, New York [1928; title in 3-rule frame]

4°: 20, [2] p; 6 fullp photos in text. Pale grayish-blue charcoal paper over bds; framed title on paper paste-on label on cover. 19.8 x 13.6 cm(7 3/4 x 5 3/8 in). Fe of flyleaves deckled; be text paper deckled in part. JSL.

Cont: tp; copyright; text; press note.

Very brief notes on famous diamonds, major precious stones, cutting & mounting of diamonds, and with photographic plates showing important pieces of gem-mounted jewelry. For customers; made of high quality materials.

GORI, ANTONIO FRANCESCO(1691-1757)

Catholic priest, art connoisseur, antiquary, author; b Florence; ord in 1717; intensively studied the arts and antiquities, becoming highly accomplished and publishing many works about antiquities of Rome, Etruria, Greece, etc; founded Società Columbaria in Florence. *Biogr Univ*, 18, 137-9; biogr notes & comments on his engraved gem books esp in Zazoff, *Gemmensammler*, 110-8, with titlepage ills, also p 174-5.

2462.-----1731-1766

Mvsevm | Florentinvm | Exhibens | Insigniora Vetvstatis Monvmenta | Qvae Florentia Svnt | Ioanni Gastoni | Etrvriae Magno Dvci | Dedicatvm | [large engrav vignette, 9.8 x 14.2cm] | Florentiae. Anno. CIↃ. IↃ, CC. XXXI. | [rule] | Ex Typographia Michaelis Nestenvs Et Francisci Movcke. [title in red & black]

The above is the series title for 12 volumes describing the art treasures in the Florence Museum, of which the first two volumes, described below, concern the engraved gems.

Gemmae | Antiqvae | Ex Thesavro Mediceo | Et | Privatorvm Dactyliothecis | Florentiae | Exhibentes Tabvlis C. | Imagines | Virorvm Illvstrivm | Et Deorvm | Cvm Observationibvs | Antonii Francisci Gorii | Pvblici Historiarvm Professoris. | [engrav vignette, a medallion] | Florentiae. Anno. CIↃ. IↃ. CC. XXXI. | Ex Typographia Michaelis Nestenvs Et Francisci Mo̎vcke. | [rule] | Praesidvm Permissv.

2°: LII, 185, [1 blank], [18]p; a-e^4, f^6, [A]-Aa^4 Bb^6; 100 engrav pls, printed recto on as many f & bound-in after text; 11

engrav head- & tailpcs, 6 engrv inits. 45 x 35 cm(18 x 13 3/4 in). Cropped. JSL.

Cont: ser tp; vol tp; dedic; pref; index of gems; tab cont; text tp; tab cont; text; general index with addenda & corrigenda; approb; instruct to binder & colophon(dated 1731); plates.

Gemmae | Antiqvae |... | [same vignette] | Florentiae. Anno. CIↃ. IↃ. CC. XXXII. | Ex Typographia Francisci Moücke. | [rule] | Praesidvm Permissv.

Accompanied by a series titlepage of same date.

2°: XXXVI, 158, [16], [2 blank]p; a-c^4, d^6 A-Y^4 100 engrav pls; 9 engrav head- & tailpcs; 5 engrav inits. JSL.

Cont: ser tp; vol tp; pref; index of gems; append to foregoing index; index of signatures on gems; tab cont; text tp; tab cont; text; general index with emend; approb; instruct to binder & colophon(dtd 1732); blank f; plates.

In this large and magnificent work, tastefully printed on heavy paper and adorned by exquisite head- and tailpieces as well as engraved initials, we find an attempt to glorify the collection of engraved gems held by the last Grand Duke of Tuscany, Giovan (or Gian) Gastone (1671-1737) who ruled from 1723 to 1737, as well as selections from local collections of such persons as Stozzi, Riccardi, Niccolini, etc. Each volume begins with a lengthy index of the gems, followed by a descriptive catalog. King, *Antique Gems and Rings*, 1, p 464, states that "the last two [sic] volumes of this magnificent work consist of plates of 181 camei and 1010 intagli, selected from the cabinet at Florence; of which the more important are elaborately shaded, the rest given in outline." The first volume also contains a series of plates depicting small busts carved in the round from chalcedony. Mariette, *Traité des pierres gravées*, 1, devotes p 288-291 to a detailed analysis of this work and the subjects of the gems, admiring both their arrangement as undertaken by Gori, and his remarks. However, A Furtwängler, took a far less sanguine view, devoting many critical remarks on p 410-11 in his *Die antiken Gemmen*, vol 3. He complains about the departure from the "good old practise" of devoting one plate per gem instead of crowding several together or even as many as a dozen on the same plate. He characterizes the drawings by Giovanni Domenico Campiglia(1692-1750) as "not really good, but also seldom entirely bad," and notes that artistic license was taken in some instances. His most severe criticisms are directed against the text which he calls "empty gossip" rather than a solid scholarly dissertation while the gems themselves are poorly chosen and incorporate among the undoubted antiques many modern productions. S Reinach, *Pierres gravées*, 1895, p 11-71, reproduces many of the gems in reduced size and quotes extensively from Mariette but is chided by Furtwängler for not making a "critical comparison between the gems depicted and their originals, nor for distinguishing the modern gems from the antique." Mariette, ibid, p 453, cites a brochure of 12 pages, critical of this work, by Simon Ballarini, entitled *Animadversiones in Museum Florentinum Ant.Franc.Gorii*, Roma, 1734. See Vinet 1515 for a list of all volumes and their contents in this series and Goodland, p 242. In sum, the present work, while meriting the condemnation of Furtwängler for its lack of scholarship, represents a type of catalog whose aims were not only to provide a record but also an artistically satisfying work, the last goal justifying to a large extent both the choice of subjects and their artistic treatment, not to mention such side issues as the glorification of the owners of the collections.

2463. ----- 1790, plates only. Raccolte di Num. 200 tavole intagliate, contenente le gemme antiche che si conservano nella Real Galleria di Firenze, Florence, 1790, 2 part. in fol., fig. Issued under the name of Campiglia, the original designer of the plates. Not seen: from Vinet 1643.

2464. -----1787, another edit, plates copied. Le Museum de Florence ou collection des pierres gravées... du cabinet du Grand Duc de Toscane, gravé par M.David, avec des explications françaises par M.Mulot, docteur en théologie de la Faculté de Paris, chanoine règulier de l'abbaye royale de Saint-Victor. Paris, 1787, 2 vol, petit in-4°, chacun avec 96 planches. Ouvrage dédié a Mgr frère du Roi. Not seen: from Reinach, p 13.

Reinach discusses Gori's original and later versions on p 11-15, noting that in the present edition the plates were re-drawn in reverse, with "an exactness generally sufficient." In the preface, "the authors extol the merits of Gori and only deplore, with Mariette, how elevated the price of his work has become." This is used as the excuse for issuance of a new edition but as also noted, p 14, the new edition presented two inconveniences which rendered it useless: the numbering of the plates which does not correspond with that in Gori because of adoption of different order, and no dimensions being given. Further, Reinach calls Mulot's text "simply ridiculous."

2465. -----1767

Dactyliotheca | Smithiana | [double rule] | Volumen · Primum[-Alterum] | Gemmarum Ectypa | Et | Antonii · Francisci · Gorii | Enarrationes | Complectens. | [engrav vignette] | Venetiis. | CIↃ IↃ CCLXVII. | [double rule] | Ex · Typographio · J · B · Pasqualii. | Superiorum. Venia; Ac · Privilegio. [Venice, 1767; both titles fully engrav]

I: 2°: [1], [1 blank], [1], [1 blank], xix, [1 blank], 97, [1 blank]p. There are 2 unnumb p between p 29-30, hence the pag is 100, counting the last blank p; only 1 f of sig r and x were furnished, but counted correctly in the pag; both are tip-in. Pi^2, $*\text{-}*****^2$, a-q^2, r^1, s-u^2, x^1, y-cc^2; engrav portr front pl + 100 bound-in engrav pls; engrav headpc, init, tailpc. 35 x 25 cm(13 3/4 x 9 3/4 in). Cut. JSL.

Cont: front pl; engrav tp; engrav dedic; pref; index of gems; text; blank p; pls.

Dactyliotheca | Smithiana | [double rule] | Volumen · Alterum | Historiam · Glyptographicum | Auctore |...| [same vign] |...

2°: [1], [1 blank], 3, [1 blank], ccxcviij, [2 blank]p; pi^1, $*^2$, A-$Dddd^2$, $Eeee^4$; 2 fullp engrav in text; 6 engrav headpcs; 4 engrav inits. JSL.

Cont: tp; pref; text; index of ancient gem engravers; index of other names mentioned in the literature; blank f.

C W King, *Antique Gems and Rings*, 1, p 464, summarizes the work as follows: "Printed at Venice at the expense of our George III., who had purchased the cabinet of Consul Smith, formed in the city. Vol.i. contains drawings of 100 gems, chiefly Cinque-cento camei, beautifully engraved, each on a separate plate. Vol.ii., Gori's "Dissertatio Glyptographica," valuable for its notices of the modern artists." There is a handsome engraved frontispiece of George III of England, shown in profile within an oval medallion surmounting an elaborate pedestal whose base bears the King's titles and the date of 1763. Around the medallion and base are vignettes of a man-of-war, a building,

Britannica, and statues, navigational instruments, etc. According to several bibliographical sources this plate was included only in presentation copies and is normally absent. The engraved title and conjugate engraved dedication are followed by the publisher's preface on gems and gem collections, a list of 109 gems shown upon the plates, and the descriptions by Gori. Each plate exhibits one gem, enlarged, with actual size shown in a small profile, and with caption and enclosed in a frame; some of the plates are signed "Z.B.Brustolon inc." but the frontispiece was drawn by P A Novelli and engraved by J Volpato.

The second volume also contains a fully engraved title, a very short preface by the publisher, and the history of gem engraving by Gori. It begins with noted gem engravers of antiquity, followed by engravers of uncertain validity, engravers and artists mentioned in older literature, and a valuable section on the engravers of the 15th to 18th centuries. G A Aldini, *Inst Glitt*, devoted an entire chapter, p 172-96, to the description of this work and the gems themselves. Furtwängler, *Die antiken Gemmen*, 3, p 417, calls it "a splendid production, although of really little value," going on to call the engravings "characterless," and noting the presence of numerous modern gems that Gori, "as always," uncritically described. See also Vinet 1629; Brunet II, 1671; Cicognara 2870; P & H Zazoff, *Gemmensammler*, p 117, with reproduction of titlepage on p 115.

Joseph Smith, b 1682, took up residence in Venice at age 18, engaging in commerce; in 1740 apptd Brit Consul; ardent collector of books, mss, pictures, coins, gems; in 1765 George III(1738-1820) purchased Smith's books to create the nucleus of his library which ultimately passed to the British Museum(King's Library); at the same time, Smith's pictures and gems were also purchased by the King; Smith d Venice 1770. DNB.

GORI, A F, see VALESI, F, et al, 1750

GORI, ANTONIO FRANCESCO & PASSERI, GIOVANNI BATTISTA (1694-1780)

G B Passeri Ital archeol, numismatist, art historian; stud jurisprudence Rome but turned to intensive study of ancient monuments and artifacts; publ important bks in this field. *Biogr Univ*, 33, 100-2; P & H Zazoff, *Gemmensammler*, 116, 147, 148.

2466. -----1750

Thesavrus | Gemmarvm | Antiqvarvm | Astriferarvm | Qvae E Complvribvs | Dactyliothecis Selectae | Aereis Tabvlis CC. Inscvlptae | Observatonibvs Inlvstrantvr [sic] | Adiectis Parergis LX. | Atlante Farnesiano | Prolegomenis · Diatribis III. | Dissertationibvs XV. Et Indicibvs | [engrav vignette] | Florentiae · Anno · IVBIL · CIↃ. IↃ. CC. L. | [rule] | Ex · Offician · Tvpogr. Albiziniana | Praesidvm · Adprobatione [Florence, 1750]

In 3 vol, generally bound as I and II-III together; vol nos appear only on half-titles. The first vol contains full-engrav part-title showing 2 cupids supporting a globe, the whole in elaborate frame by Zocchi.

I: 4°: XIX, [17]p; pi^4, $**^4$, $***^2$, S-SS^4; engrav title vignette; 2 engrav headpcs, 2 engrav inits, 2 woodcut tailpcs; 14 pages with engrav frames in several different designs; 200 pls(recte 199), Pls 184-5 being com- bined in one). 30 x 20.7 cm(11 7/8 x 8 1/8 in). Cropped. Marginalia in my copy indicate uncut size considerably larger. JSL.

Cont: 1/2tp; tp; engrav tp; dedic; quote; Gori pref; tab cont(for entire work); lists of addit engravs not on pls; pls.

Thesavrvs |...| Dactyliothecis Selectae | Aer. Tabvlis CC. Inscvlptae | Observationibvs | Inlvstrantvr | Adiecta Diatribe | De Gemmis Basilidianis | Et Dvabvs Aliis | [same vign]...

II:4°: XIV, [1], [1 blank], 312, [18]p.; pi^4, b^4 A-Qq^4, a-b^4, c^1; tp vignette, 8 engrav head- & tailpcs; 2 engrav inits; 5 woodcut tailpcs; 5 woodcut inits; 2 text woodcuts. Some pages misnumb. JSL.

Cont: 1/2tp; tp; pls list; collections in which "star" antique gems included; 3 essays by Passeri; index.

Atlas | Farnesianvs | Marmorevs | Insigne Vetvstatis Monvmentvm | Commentario | Io. Baptistae Passeri | I.C.Nobilis Evgvbini. Vic. Pisavr. | Inlvstratvs | Adcedvnt Eivsdem | Dissertationes XV. | In Selectas Gemmas Antiqvas | Astriferas | Et In Praestantioria Inedita Cimelia | [same vign]...

III:4°: VIII, [1 blank], 307, [1 blank]p; pi^4, A-Pp^4, Qq^2; 2 fold engrav pls of Atlas supporting the world; 4 fold engrav pls of constellations; 1 fold engrav pl of a frieze; 22 engrav head- & tailpcs; engrav init; 3 text engrav; 3 text engrav reproducing gems from Vol I(Pls 187, 184-5, 195); 16 woodcut inits; 6 woodcut tailpcs; 5 woodcut text fig. JSL.

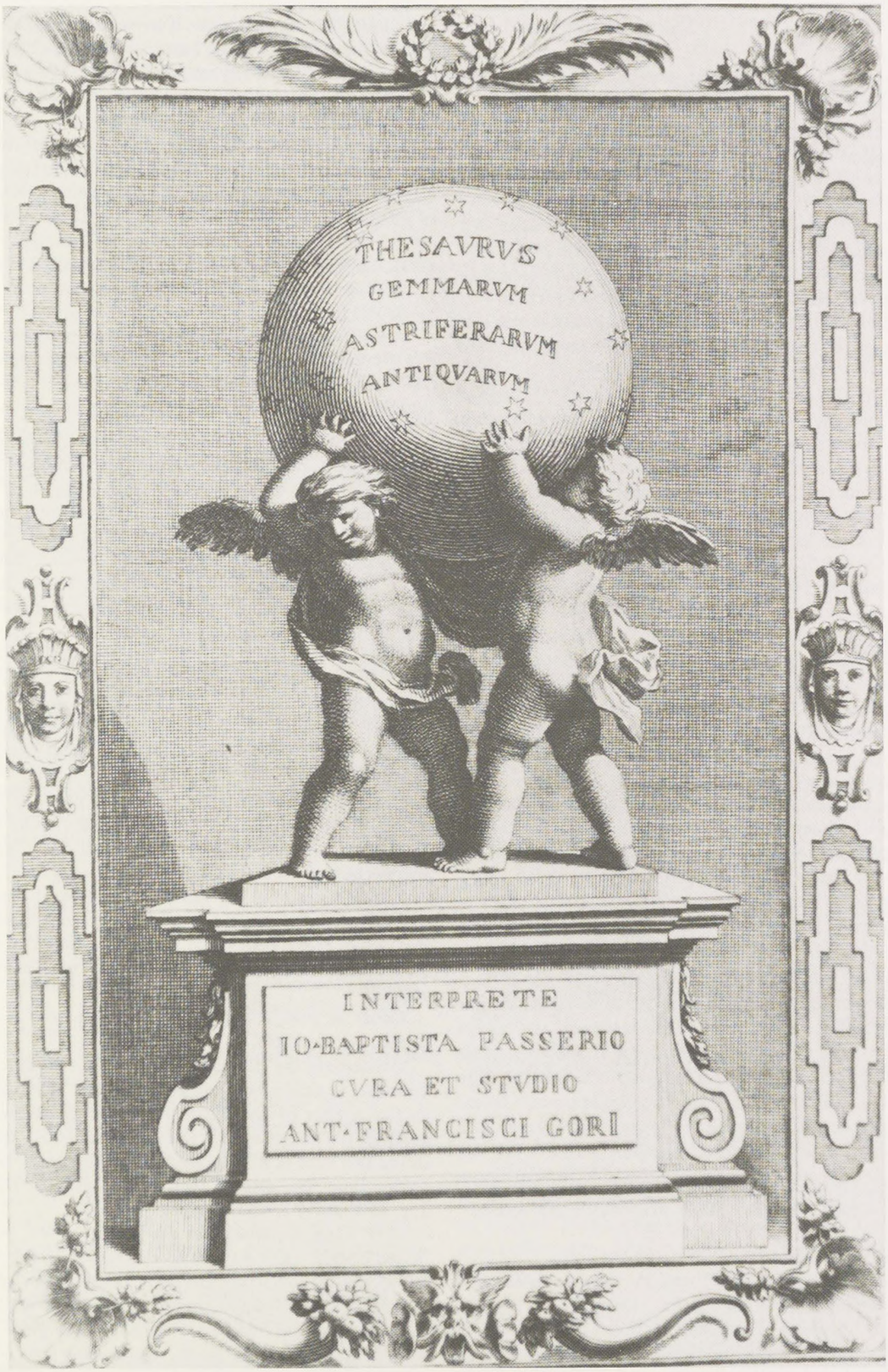
Cont: 1/2tp; tp; tab cont; Passeri dissert on the Farnese Atlas; 15 others dissert by him; index & colophon; errata; register of sigs; blank p.

A large and elaborate work written and illustrated about the theme of the significance of the stars and other celestial bodies as depicted upon engraved gems, but with excursions into related subjects, most notably a lengthy dissertation on the symbolism shown in the Farnese Museum statue of Atlas. This book is generally cataloged under Gori, although it is apparent that the major writing was by Passeri with Gori acting mainly in the capacity of editor. The first volume contains a preface by Gori and 200 plates, one of which is double-numbered and hence raising the plate count to 209 but with only 199 distinct engravings on as many leaves. Remarks on the quality of plates below. The second volume contains Passeri's descriptions and comments on the gems and an essay on Basilidian gems and another on a gem depicting Mercury by Gori. The last volume begins with a detailed study of the Farnese Atlas and is supplied with two fine plates of same, each from a different viewpoint, and four other plates depicting the constellations carved on the celestial sphere supported by Atlas. Next are fifteen dissertations by Passeri on selected gems from among those depicted in the first volume some plates of which are reproduced as illustrations for the essays.

The most extended commentary on this work is by G A Aldini, *Inst Glitt*, 1785, in which two entire chapters are devoted to discussion of its contents and merits, p 227-74. C W King's comments are curt "many plates of astrological and Gnostic gems, the designs much magnified, and coarsely engraved"(*Antique Gems and Rings*, 1, p 464). Furtwängler, *Die antiken Gemmen*, 3, 414, summarizes the chief contents and notes that the engravings are "simple outlines without pretension" and the small gems representative of the Roman imperial period. He calls the illustrations "unreliable." See also Vinet 1619, not in Goodland although some illustratIons appear to qualify.

GORI, ANTONIO FRANCESCO & ZANETTI, GIROLAMO FRANCESCO(1713-1782)

Count Zanetti, b Venice, became a noted engraver, connoisseur and collector of fine art objects; G F Zanetti, b Venice, was related; prof law at Padua; author of several works on antiquities. A discourse on A M Z and his collection in Maxwell



2466. Fully engraved titlepage to Gori's treatise on engraved gems which depict celestial objects in whole or in part

Sommerville, *Engraved Gems: Their History*, 1889, p 315-7, who says "a number of these very gems are in my collection in Philadelphia, and the original leather cases lined with buckskin in which they were set for him."

2467. -----1750

Le Gemme Antiche | Di Anton-Maria Zanetti | Di Girolamo | Illustrate | Colle Annotazioni Latine | Di Anton-Francesco Gori | Volgarizzate | Da | Girolamo Francesco Zanetti | Di Alessandro. | [engrav vignette] | Venezia MDCCL. | Nella Stamperia Di Giambatista Albrizzi Q.Gir. | A Spese Dell' Autore. [Venice, 1750, priv published] [Facing title in Latin:]

Gemmae Antiquae | Antonii Mariae Zanetti | Hieronymi F. | Ant. Franciscvs Gorivs | Notis Latinis | Inlvstravit. | Talice Eas Notas Reddidit | Hieronymvs Franciscvs Zanettivs | Alexandri F. | [engrav vignette] | Venetiis MDCCL. | Ex Typographio Ioan. Baptistae Albritti Hier.F. | Svmptibvs Avctoris.

Both titles in red & black. There is an engraved text title, see below.

2°. [18], 148, [7], [1 blank]p + engrav tp; pi^3, *-**^{2}, lambda^2, A-Oo^2, Pp^4; 80 engrav pls; 72 engrav tailpcs; 1 text engrav; 1 engrav init. 37.3 x 24.7 cm(14 3/4 x 9 3/4 in). Cropped. USGS Kunz Coll, GS 34-396; JSL.

The engraved text title for the plates which follow the text reads: Dactyliotheca | Ant.M.Zanetti. | Hier.Filii. | Ab. | Ant.Fran.Gorio.| Notis.Inlvstrata. | CIↃ IↃ CC XLIX. [1749]

Cont: 1/2tp, supplied; 2 f titlepages(conjugate); dedic(dtd 1751); pref(double col, Latin verso, Ital recto); text(double col same order); index of gems(same double col); index of persons(same); approb; blank p; pls title; pls.

The splendidly illustrated descriptive catalog of Count Antonio Maria Zanetti's collection of engraved gems which Furtwängler, *Die antiken Gemmen*, briefly notes in vol 3, p 414, calling the engravings "beautiful" but the collection itself containing "many modern copies and inventions" and that it "held nothing significant." There is one gem per plate, handsomely framed, and with scale given; considerably enlarged. Subjects include heads of persons famous in history and in Greek and Roman mythology, classical events, and including two small busts of negroes carved fully round, several lamps, and on the last plate, an elaborate, crowned jewel, whose centerpiece is a medallion portrait of Christian VI of Denmark(1699-1746). Almost equally important are the large number of engraved tailpieces. The dedication is to Queen Louisa Ulrica of Sweden(1720-1782). The preface and text are parallel-columned in Latin & Italian. Vinet 1621; Cicognara 3076. A rare work.

GORI, A F, see SCHWEBEL, NICOLAUS; also VALESI, F, et al

GORINA, I F, see ZHUKOV, V V, et al

2468. GORINI, GEMELLO Pietre preziose... per Gemello Gorini. Milano: Ulrico Hoepli. Date of first edition not found.

2469. -----1881, later edit

Manuali Hoepli | [wavy rule] | Pietre Preziose | Classificazione, | Valore, Arte Del Giojelliere | Per | Gemello Gorini. | Con 12 incisioni. | [rule] | II^a edizione. | [rule] | [logo] | Ulrico Hoepli | Editore-Librajo | Milano | Napoli [4-dot vert rule] Pisa | 1881.

8°: [2], 137, [5 blank]p; titleleaf conjugate with front endp pastedown & tipped-in; last blank f conjugate with back cover pastedown; 12 wood engrav. Terra-cotta cloth, elaborately dec with pictorial panels, black lett on cover; black lett spine; back cover adverts. 15.4 x 9.8 cm(6 x 3 7/8 in). Cut. Lire 2. JSL.

Cont: adverts inside front cover; tp; publ data; text; blank p; index (actually tab cont); 5 blank p.

Brief, popular work on gemstones, but confusing in organization and of little real value. Topics: identification procedures, classification schemes, falsifications, imitations, brief descriptions of gemstones. Poorly made, paper cheap, browned and brittle.

GORLAEUS, ABRAHAM, recte ABRAHAM DE GOORLE, or VAN GOORLE, or GORLAY(1549-1609)

Latin scholar, antiquarian, esp antique rings & engrav gems; b Antwerp, Belgium. *Biogr Univ*, 18, 141-2; P & H Zazoff, *Gemmensammler*, for comments on his publ.

2470. -----1600, or 1601

Abrahami Gorlaei | Antwerpiani | Dactyliotheca | Seu | Annulorum Sigillarium quo- | rum apud Priscos tam Graecos | Quam Romanos usus. | E Ferro Aere Argento & Auro | Promptvarivm. | Accesserunt variarum Gemmarvm | quibus antiquitas in Sigillando uti solita | Scalptvrae | Cum privilegio

No place, no date, but dedic gives "Delphis Bat[avorum]" or Delft, Holland, 1601; but see discussion below. Entire title engraved [with printed title?], a rectangular engrav; the title surrounded by 6 human figures, a column on left stating "Virtvs," and on the right "Nobilit;" and engraved gem in a ring at top.

4°: title leaf + [4]f + engrav portr on single f + [12] f + 16 p + [2]f + [137]f of pls + blank f; *^{4}, *-***^{4}, A-B^4, C^2. 19.5 x 15.5 cm (7 3/4 x 6 1/8 in). Cropped. USGS Kunz Coll, GS 34-608; JSL.

The 137 leaves of engravings consist firstly of 101 leaves bearing numbers 1-196, followed secondly by 37 leaves bearing numbers 1-148, and followed by a blank leaf. The first group of engravings depicts rings set with engraved gems in actual size with enlargements of the gems to show details and with abbreviated statement of the metal in thc ring and the material of the gem; most plates depict two rings per plate. The second group depicts engraved gems only, 4 per plate, each identified as to material.

Cont: tp; pref; sonnet; dedic; another pref; laudations; introd; 3 letters; pls.

Concerning the date of this work, Furtwängler, *Die antiken Gemmen*, 3, 403, gives the first edition as 1599, which is the date of a letter by Everard Vorst in the preliminaries, but inasmuch as the author's dedication is dated 1601, and a reprint shows this date in its engraved title, this should be the first edition date. The date of 1601 is also given by Mariette, *Traité*, 1, p 252, 267-71, 453.

C W King, *Antique Gems and Rings*, 1, 464, states that this "is the earliest work on this special subject that has come to my knowledge. It gives copper-plates, carefully but stiffly drawn, of 126 rings and 148 unset gems. The second edition, 1609, contains the same number of rings, but the gems are increased to 172. After Gorlaeus' death, in the same year at Delft, his cabinet was purchased of his heirs by our James I for the Prince

of Wales, but was dispersed on the sale of the royal gallery under the Commonwealth, and many of the gems were recognized by me amongst the Arundel. A third edition was brought out by Gronovius, Leyden, 1695, with the former plates re-engraved and fantastically arranged, and many new ones added, including all from "Macarii Apistopistus," bringing up the number of rings to 216, of the gems to 682." Furtwängler, ibid, notes that "Gorlaeus was a zealous collector... who published the first "Dactyliotheca," the foreword of the first edition dated 1599. After a short prologue there follows 126 rings and 148 unset stones in very mediocre engravings. A second, somewhat enlarged edition appeared in 1609 at Delft. The gems went to England, and later, in part, into the Arundel collection. As insignificant as this work appears to us, the famous Gronovius still found it worthwhile to issue a new edition in 1695 in Leyden with his commentary and additional equally bad plates. The work was reprinted in 1707." Vinet 1609 states that the principal value of the work was "to fix attention of savants to an important branch of illustrated antiquity." Henkel, Römischen *Fingerringe*, 1, p xvi-xvii, believes the rings to be of contemporary manufacture but does not question the authenticity of the gems, stating that the collection of antique rings assembled by the antiquary J H Jeidels, Frankfurt, contained many examples from the Gorlaeus collection, as determined from an examination as it is housed in the Kunstgewerbeschule in Pforzheim. See also Brunet II, 1671; Graesse III, 120; Goodland 242. Mariette, cited above, also gives extended remarks on Gorlaeus and his book.

Note: As seems particularly to be the case in older engraved gem books, especially those with complicated preliminaries and two or more major parts, the above work can be found in several different collations and states of completeness. Until a large number of copies can be compared, there seems to be no generally accepted number of plates in the first edition, it being noted that the author himself states that he presents "centum sexaginta sex" or 166 rings and "centum quadragintaocto" or 148 gems. These numbers should be compared with those in the reprint of 1609 below.

2471. -----1609, reprinted & incoporated in a larger work

Pomp.Gavrici | Neapolitani | Descvlptvra Liber. | Lvdo Demontiosii | De veterum Sculturâ, Cae- | latura, Gemmarum Scalpturá, & | Picturâ Libri Duo. | Abrahami Gorlaei | Antverpiani | Dactyliotheca. | Omnia accuratius edita. | Cum privilegio | 1609 [no place; Antwerp]

Engrav title: copies closely the figured frame used in previous edit; again no printed title.

4°: [8] + 174, [2 blank]p + engrav title leaf + [8]p + engrav portr leaf + [24], 16, [4] p + 101 engrav pls(rings 1-196) + [blank]f + 47 engrav pls (gems 1-188). 23 x 17 cm(9 x 6 3/4 in). Cropped. JSL.

Cont: title; introd(by Martini, dtd Antwerp 1607); Pliny extract; tab cont; Guarici essay p 1-118; commentary on sculpture, engraving & pictures by Demontosii, p 121-167; commentary on engraving by Aldus Manutius, p 168-173; commentary on pictures by Philostratus, p 173-4; blank f; the *Dactyliotheca* with own engrav tp & engrav portr of Gorlaeus & text, etc., as before; pls.

The *Dactyliotheca* is reprinted from the same forms & pls as in first edit but unset gems section contains additional pls. Cicognara 279; Schlosser-Magnino 248; Mariette, *Traité pierres gravées*, 1, p 251-2. L.Demontosii = Louis De Montjosieu, Fr scholar & antiquary, b in noble family of Rouergue in 16th cent; *Biogr Univ* 29, 588-9.

2472. -----1695, Gronov edit, 2 vol

Abrahami Gorlaei | Antverpiani | Dactyliothecae, | Seu | Annulorum Sigillarium | Quorum apud Priscos tam Graecos quam Romanos usus, | Ex Ferro, Aere, Argento & Auro | Promptuarii | Pars Prima [-Secunda] | collectis aliunde & ineditis & editis Annulorum | figuris auctior; | cum explicationibus | Jacobi Gronovii. | [rect engrav vignette] | Lugduni Batavorum, | Excudit Petrus Vander Aa, Bibliop. | [rule] | CIↃ IↃ CXCV [Leyden, 1695; title in red & black]

The above letterpress title is preceded by a fine engraved portrait of Gorlaeus and a conjugate engraved title; the portr is re-engrv; title same date as letterpress title.

Part I: 4°: [18], 28, [18]p + P[3], 4-16; pi^2, dagger^4, double dagger^3, *-****^{4}, ****^{2}, A-D^4. Large fold engrav portr of Gronov bound-in after dedic; 109 engrav pls(216 rings set with engrav gems) bound-in after Gronov's pref and signed A-Dd^4, Ee^1; all are re-engraved after orig edit pls. 20.1 x 15.7 cm(8 x 6 1/8 in). Cropped. JSL.

Cont: 1/2tp; portr pl; engrav tp; tp; dedic; portr pl fold; pref; pls; commentary(Gronov); dedic; pref; laud by Vorst + 6 others; introd; "Candido" by Gorlaeus; Heinsius' sonnet,

Abrahami Gorlaei | Antverpiani | Dactyliothecae | Pars Secunda, | Seu | Variarum Gemmarum, | Quibus antiquitas in signando uti solita, | Scalpturae,| triplo quam fuerunt, partim antehac ineditarum, partim | ex scriptis eruditorum virorum collectarum numero | locupletiores, | cum succincta singularum explicatione | Jacobi Gronovii. | Accedit | Marbodei, Galli, Caenomansis, | Carmen de Gemmis & Lapidibus. | [same engrav vignette] |... [title also in red & black]

An engraved title is also provided but neither of the portraits.

Part II:4°: engrav title & conjugate title on [2]f + p 5-64 + 32 p; pi, lambda^1(P 5-6), 2 to 8 stars^4, 9 stars^1, Aaa-Ddd^4 The 173 engrav pls of 682 gems appear immediately after the printed title and are signed: a-vv^4, xx, yy, zz. JSL.

Cont: engrav tp; print tp; pls; Gronov commentary with addenda & corrigenda; title to Marbod; 2 salutations;pref; poem; 4 p of publ bks.

This edition by Gronov is remarkable for being one of the earliest books to incorporate Marbod's famous poem on gemstones. The engraved titles in the above work differ completely, the one for the first part shows a woman in martial dress (Juno?) pointing at a parchment bearing the abbreviated title, and seated upon a plinth bearing the remainder of the title and date. The second title shows a crowned youth atop a plinth bearing the title. There are several allegorical figures in each. See comments of P & H Zazoff, *Gemmensammler*, p 31-34 on Gronow-(1645-1716). According to *Biogr Univ*, 18, 527-8, Gronow was an eminent Dutch philologist & antiquary; b Deventer; 1679 prof belles-lettres Leyden; spent many years in cultural travels in Europe.

2473. -----1707, reprint.

Abrahami Gorlaei | Antverpiani | Dactyliothecae, |...| Pars Prima [-Secunda] | ... | Jacobi Gronovii. | [oval woodcut logo] | Lugduni Batavorum, | Excudit Henricus à Damme, Bibliop. | CIↃ IↃ CCVII. [1707; title all in black]



2473. Engraved titlepage to Gorlaeus treatise on engraved gems with explanations by Jacob Gronow

The publisher's logo is the same as that formerly used by Ioannis Maire of the same city. Engraved title supplied to both parts as before, and are same as the 1695 edition except that dates have been changed with numbers in Roman despite retention of older numerals still used in the printed titles. The first part also contains the engraved portrait of Gorlaeus but the engraved portrait of Gronov now appears in the second part.

Part I: 4°: engrav title & printed title + 28 p + engrav portr of Gorlaeus + [18]p + p[3], 4-16 + pls; pi^2, $*-***^4$ $****^2$, $A-D^4$. The portr of Gorlaeus is after p 28. The 109 pls of rings are signed $A-Dd^4$, Ee^1. 22.2 x 17.4 cm (8 3/4 x 6 7/8 in). Cropped. JSL.

Cont: engrav title; title; Gronov commentary; portr of Gorlaeus; dedic, etc pls.

Abrahami Gorlaei | Antverpiani | Dactyliothecae | Pars Secunda, |...| ex scriptis eruditorum virorum collectarum | numero locupletiores, | Cum succincta singularum explicatione | Jacobi Gronovii. |...| [same woodcut logo] | Lugduni Batavorum, |... | CIↃ IↃ CCVII.

Part II:4: titles; [16]p + p 5-64 + 173 pls + 32 p; pi^2, dagger-dagger^4, lambda^1, 2 stars to 8 stars^4, 9 stars^1; pls signed $a-vv^4$, xx, yy, zz, $Aaa-Ddd^4$. As before the 173 pls depict 682 unset engrav gems. JSL.

Cont: portr of Gronov; engrav title; title: dedic; Gronov pref; dactyliotheca short title; Gronov comment; pls; Marbod poem; 4 p publ bks.

The engraved titles are identical to previous edition but dates differ while the titles are no longer in red & black and are entirely reset with substitutions of the Ioannis Maire logo for previous engraved vignette. Aside from an interchange of parts, probably due to an understandable confusion on the part of the binder, this edition appears to be printed from the same forms and includes the same broken types, bent rules, etc, suggesting that the forms were stored and re-used. However, some loss of type is noted as in comparing numerals on p 60 in this edition and the same in the previous edition; there are other defects.

2474. -----1778, Paris edit

Cabinet | De Pierres Antiques | Gravées, | Ou | Collection Choisie | De 216 Bagues Et De 682 Pierres | Égyptiennes, Étrusques, Grecques, Romaines, Parthiques, | Gauloises, &c. | Tirées du Cabinet de Gorlée, & autres célebres Cabinets | De l'Europe. | Tome Premier[-Second]. | [rule] | [woodcut orn] | A Paris, | Chez Lamy, Libraire, quai des Augustins, au coin de la | rue Pavée | [double rule] | M.DCC.LXXVIII. | Avec Approbation, Et Privilege Du Roi. [1778; title in red & black]

Part I: 4°: [4]p + [2]f engrav pls + 8p + pls I-CIX; pi^2, $A-B^2$. pls signed $A-Dd^4$, Ee^1. 28.4 x 21.8 cm(11 1/4 x 8 5/8 in). Cropped. USGS Kunz Coll, GS 34-607; JSL.

Cont: tp; pref; approb; portr pl of Gorlaeus; engrav tp; index to pls; pls. The placement of engraved portrait and engraved title varies.

Cabinet |... | Tome Second. | [rule] | Pierres antiques. | ... | Avec Approbation, Et Privilege Du Roi. [title in red & black]

Part II; 4°; engrav titleleaf + [1]f + 20 p + pls CX-CCLXXXII; pi, $A-E^2$; pls signed $a-vv^4$, xx, yy, zz.

In another copy, much smaller, 21.6 x 16.6 cm(8 1/2 x 6 1/2 in), the Gorlaeus portrait was omitted and the engraved titles were placed immediately ahead of the plates, and, with them, printed on pale bluish-green paper.

The plates are the same but touched up here and there and altered in those areas where title information appears, and in the gem plates in upper right-hand corners where small rectangular boxes have been added and Roman numerals inserted. Marbod now omitted; text matter merely lists the objects numerically and identifies them according to subject.

GORLAEUS, A, see KIRCHMANN, J, 1672

2475. GOSMOND Devonshire's cabinet of gems, engraved by Gosmond. - Collectio figuraria gemmarum antiquarum ex dactyliothecae Ducis Devoniae. -(Londres, v.1739), pet. in-fol. Not seen: from Vinet 1617, "c'est sous les titres factices ci-dessus qu'on désigne un recueil de planches représentant les pierres gravées de la célèbre collection du duc de Devonshire. Il n'a jamais été rendu public, et les exemplaires en sont fort rares. Les plus complets contiennent cent et une planches. Voire pour plus de détails: *Aedes althorpianae*, I, pp.166-172."

2476. GOSSE, RALPH C The rare and unusual gemstones of New England. *Lap J* 18, 2, 1964, 336-42, ill; 3, 432-43; 4, 510-13, all passim; refs, illus.

2477. -----1969 A catalogue of Massachusetts gemstones. *R & M*, 44, 1, 1969, 24-28 to no 11, 758-9, in all 9 articles, each ca 2-4 pages.

2478. GÖTZ, FRIEDRICH

Diamanten | und Diamantwerkzeuge zum Abrichten | von Schleifkorpern | von | Friederich Götz | [logo] | 1968 | VDI-Verlag GM BH Düsseldorf | Verlag des Vereins Deutsche Ingenieure

8°: [8], 108 p; 164 fig; correction slip laid in. Bright yellow plastic wrap, black lett on cover & spine. 29.9 x 14.7 cm(8 1/4 x 5 3/4 in). Cut. DK 621.922.029. JSL.

Cont: tp; fwd; tab cont; 20 chs; biblio(lO7-8, 21 entries); errata slip.

How to select & orient diamond crystals in tools. Begins with discussion of crystallography, then physical properties, several chapters with 88 photos of typical diamond crystals to show their appearances, and with remainder of text on manufacture of tools. Rev *J Gemm*, 15, 1, 1976, 34.

2479. GOURJON, MA.th [sic

The Indian Connoisseur | or | The Nature of Precious Stones | Elucidated | Such as | Diamonds Rubies &c. | By Ma.th Gourjon | Lapidary | London 1785

This entry given for the record despite the fact that it consists of an entirely hand-written manuscript in the Mineralogical Library of the British Museum(Natural History), London and apparently never printed in book form. Bookplate of Edward Heron-Allen who had purchased the work in February 1904 from B Dobell, bookseller, with a signed note by Heron-Allen stating "Never published. Not in BM Library nor mentioned in any Bibliography, nor referred to in any other work." To the contrary, I have encountered this title in several lists and thus the reason for giving it here to clear up any confusion as to the validity of this work.

2480. GOUSPEYRE, CHARLES-JEAN

Ch.J.Gouspeyre | Lapidaire Expert | La Vie | Des Pierres Précieuses | [rule] | Illustrations De René Meffre | [rule] |

1942 | Imprimerie de "L' Eclaireur de Nice" | 21, Rue Meyerbeer, Nice

16°: 179, [1]p; tip-in pale yellow glossy f bearing family portraits verso, dedic recto, and facing first part tp; 17 ill(8 pen-and-ink sketches); 2 tab. Thick, pale gray-green textured paper wrap, cover title in orn red frame. 25.3 x 16.5 cm(10 x 6 1/2 in). Uncut. Fr 125. "Cet Ouvrage A Été Tiré A 3.300 Exemplaires, Dont 500 Sur Papier Surglacé "Paon" Numerotes De 1 a 500. Ex. n° 396" JSL.

Cont: commem date; publ data; tp; tab cont; pref; portraits pl; first part tp; text & other part tp's; conclusion.

Issued to commemorate the Gouspeyre family of commercial lapidaries whose career began in 1851. Three text parts: history of family, anecdotal & gemological, and a collection of brief essays. Largely of interest because the many anecdotes and accounts of experiences, opinions, adventures in the trade etc.

2481. GRABOWSKA, JANINA

Polnischer Bernstein | Janina Grabowska | Deutsch: Siegfried Schmidt | Aufnahmen: | Janina Gardzielewska | Janusz Korpal | Verlag Interpress | Warszawa 1982 [title in dull gold & black]

"Das Buch erscheint ferner in englisher, französischer und polnischer Sprache." Not seen.

2°: 48 p + 56 glossy f bearing 140 col photos(last f publ data); 10 fig. Unfin gray-blue cloth, gilt title on cover & spine; green-blue pictorial endp; blue & red dj with col photos both covers(no flap data). 31.2 x 23.7 cm(12 1/4 x 9 1/4 in). Cut. ISBN 83-223-1983-5. JSL.

Cont: 1/2tp; dedic; tp; text; biblio(p 46-8, 93 entries); col photo sect; publ data.

Handsomely-produced, excellent color photographs of many types of raw amber, archeological ambers, pieces with inclusions, but mainly depicting examples of ancient to very modern jewelry, ornaments, table pieces, caskets, etc. made in whole or part from amber. The text provides a brief history of amber in its natural history - scientific - cultural aspects, with some data on composition, properties, and origin of Baltic amber, but largely deals with cultural-artistic uses of amber throughout the ages with substantial sections on modern artists and jewelers in Poland who feature amber in their pieces. The extensive bibliography mentions many recent works and articles in addition to most of the classical references but unfortunately omits paginations.

2481A. -----1983, Engl edit

Polish Amber | Janina Grabowska | translated by Emma Harris | Photographs by | Janina Gardzielewska | and Janusz Korpal | Interpress Publishers, | Warsaw 1983

2°: 39, [1 blank]p + same pls section, etc, but omits bibliography.

Identical in all respects save for the language.

GRAESSE, J G T, see GRÄSSE, J G T

2482. GRAFFENAUER, JEAN PHILIPPE(1795-)

Histoire | Naturelle, Chimique Et Technique, | Du Succin | Ou Ambre Jaune; | Par | J.P.Graffenauer, | Docteur en médecine, ancien Médecin ordinaire des armées; Membre |... [4 lines]... | [orn] | Paris, | Chez F.G. Levrault, rue des Fossés M. le Prince, N.°33. | [rule] | Strasbourg, de l'imprimerie de F.G.Levrault. | 1821.

8°: 104 p; engrav headpc; rect vignette p [7] an amber-fishing scene. Yellow, hand-laid paper wrap; title in orn frame on cover; similar frame back cover enclosing urn orn. 21.7 x 13.7 cm(8 1/2 x 5 3/8 in). Uncut., JSL.

Cont: 1/2tp; tp; dedic; introd; text; tab cont; other works of author & reviews of same and with testimonial ltrs. USGS GS 17-279.

Despite its age, this appears to be the only substantial monograph on amber written in the language by a French researcher. It is based on researches made during sojourns in Germany, Prussia, and Poland. The first part is a thorough review of of the knowledge and its sources then available on amber and takes up such topics as origin and formation, etymologies of names applied to amber, synonymy, classification of ambers, species and varieties, inclusions, fishing & mining for amber, localities, historical notes on earlier origin theories, commerce, and value of amber. The second part is equally thorough, giving data on physical & chemical properties, reaction of amber to various chemical agents, products of amber distillation, artificial amber, and the technology and uses of amber in the arts and in medicine. This work is remarkable for bringing together many scattered chemical experiments and discoveries relating to amber into a coherent presentation; it is rarely referenced and one must conclude that it is rare.

2483. GRAFFIGNY, HENRY DE [pseud for MARQUIS, RAOUL] (1863-)

Le | Diamant | Artificielle | Par | Henry De Graffigny | Ingénieur Civil | [wavy rule] | Avec 22 figures explicatives | [woodcut vignette] | Paris | Librairie J.Rousset, Editeur | 1, Rue Casimir=Delavigne et 12, Rue Monsieur=le=prince | [rule] | 1908

8°: 86, [1], [1 blank]p; 22 fig(several figs per ill). Pale gray wrap, orn ruled frame enclosing title on cover; other bks back cover. 18.2 x 11.4 cm(7 1/4 x 4 1/2 in). Cropped. BM(NH); JSL; USGS Kunz Coll GS 33-297.

Cont: 1/2tp; other author bks; tp; 4 chs; tab cont; blank p.

Popular discussion of diamond: physical & chemical properties, sources, diamond industry, synthesis, with the last describing various attempts to create diamond and discussing the supposed successes of Moissan and others. The final chapter is a general essay on other gemstones and synthetics and appears to be a "filler" not germane to the central theme. All of it is a shallow treatment of little value.

GRAHAM, R P D, see ADAMS, F D, 1926

2484. GRAMMATCHIKOV Istoricheskie i prakticheskie svedeniya o Ekaterinburgskoi shlifovalnoi fabrike i mramornom gornoshitskom zavode. *Gornyi Zhurnal*, 1827, knig 3, p 131-47. Not seen.

GRANADCHIKOVA, B G, see SOLODOVA, Y P, et al

2485. GRAND, S Méthode de culture de l'huitre perlière dans les lagons de Tahiti. *Revue Maritime et Coloniale*, Paris, vol 125, 1895, p 575-90. Not seen; in Kunz & Stevenson, *Book of the Pearl*, biblio.

GRANDIA, J & MARINACE, J C, see INDUSTRIAL DIAMOND ASSOC of AMER, 1970

2486. GRANGE, J M LE The Barbara beryls: a study of an occurrence of emeralds in the north-eastern Transvaal, with some observations on metallogenetic zoning in the Murchison Range. *Trans Geol Soc South Africa*, 32, 1929, 1-25, 3 sketch maps, 3 fig. JSL. Emeralds first discovered on Farm Barbara, Transvaal in Murchison Range, 1927; deposits near Leysdorp or Gravelotte, both names commonly affixed to emeralds from this area. Additional finds were made elsewhere in the district. Describes geology, mineralogy, with valuable notes on properties, crystallography, inclusions, zoning, etc in the crystals.

2487. GRANT, MAURICE HAROLD

The | Marbles and Granites | of the World | by | Colonel Maurice Harold Grant | Author of | The Makers of Black Basaltes |... [8 lines of addit works] ...| Printed for the Author by | J.B.Shears & Sons Ltd., Chelsea, London, S.W.3 | 1955 [title in red & black]

16°: 158, [2 blank]p. Bright red, pebbled cloth, gold title on cover. 24.8 x 18.9 cm(9 3/4 x 7 1/2 in). Cut. All paper pale tan. JSL;LC A 57-1429.

Cont: tp; quotes; pref; gloss; notes; introd; text; addenda; authorities & collections(biblio p 157, 13 entries); blank f.

An interesting and useful compilation of many hundreds of names of marbles and related rocks in the first (untitled) part of the text, followed by a similar listing in Part II(with titlep) for granites and allied rocks, all of which were selected by the author on the basis of ornamental usefulness. Each page lists commercial name to left, locality in center, and properties to right. Introductory remarks before each of the two parts give a little natural and cultural history of the materials but there are some factual errors which may be due to the author's lack of mineralogical/petrological knowledge. Scarce; privately published.

2488. GRANT, RAYMOND W Mineral collecting in Vermont. *Vermont Geol Survey, Dept Water Res, Montpelier, Spec Publ* 2, 1968. Centerstapled: VI, 49 p; 69 figs (photos, maps). Col wrap, photos & title on cover. 25.5 x 20.1 cm(10 x 8 in). Cut. $3.00. JSL. Among the localities(by county) are several from which gem material has been obtained: marble, jasper, quartz, grossular, fuchsite, and kyanite. Handsome, carefully prepared pamphlet.

2489. GRANTHAM, D R & ALLEN, J B Kimberlite in Sierra Leone. *Overseas Geology and Mineral Resources*, London, vol 8, no 1, 1960, p 5-25; fold sketch map; 6 glossy photo pls(12 photos); 2 fig; 9 tabs. JSL. Geology, kimberlite dikes with outcrop map, description of diamonds, p 15-25. Alluvial crystals discovered in 1930, the dikes in 1948. Excellent descriptions and photos as well as line drawings of crystals: twinning, habits, surface features, coated crystals, framesite, fluorescence, inclusions, etc.

2490. GRASER, BERNHARD

Zur | öffentlichen Prufung der Böglinge | des | Cölnischen Real-Gymnasiums | welche | Mittwoch, den 10. April 1867, | Vormittags von 9 bis 12 Uhr, | Nachmittags von 3 bis 6 Uhr, | in dem Sitzungs-Saale der Stadtverordneten | (Cöln. Rathaus, Breite Strasse) | stattfindet, | ladet ergebenst ein | Dr. E.F. August, | Director und Professor. | [double rule] | Voran eine Abhandlung des ordentl. Lehrers Dr.Graser: Die Gemmen des Königlichen | Museums zu Berlin mit Darstellungen antiker Schiffe. | [orn rule] | Berlin, 1867. | Gedruckt in der Nauck'schen Buchdruckerei.

4°: 20 p; 2 engrav pls. 24 x 19.2 cm(9 1/2 x 7 5/8 in). Cut. USGS, Kunz Collection.

A dissertation on 24 engraved gems in the collection of the Imperial Museum in Berlin which depict ancient ships. A similar work below.

2491. -----1867 Die Gemmen des k.Museums zu Berlin, etc. - Les pierres gravées Musée royal de Berlin, qui representant des vaisseaux. - Berlin, Calvary, 1867, 4°, 22 p, 32 pls, 2 fr,50. Not seen; from Vinet 1665.

GRÄSSE, or GRAESSE, JOHANN GEORG THEODOR(1814-1885)

Ger numismatist, antiquary, bibliographer; librarian to King of Saxony; Inspector, Cabinet of Medals, Dresden 1848; possessed "profound knowledge of the literature of the Middle Ages." N B Gen, 21, 585; NDB, 6, 716.

2492. -----1872 Beschreibender Katalog des K.Grünen Gewölbes zu Dresden. Dresden, 1872. Not seen: from J Menzhausen, *Das Grüne Gewölbe*, 1968.

2493. -----1872 Fr edit; not seen

2494. -----1874 2nd Ger edit(?); not seen

2495. -----1874 Engl edit

A | Descriptive Catalogue | Of The | Grüne Gewölbe | Or The | Green Vaults | By | Dr J.G.Th.Graesse, | Director Of The Green Vaults, Counsellor Of Court Etc. | (Copyright Reserved.) | [taper rule] | Dresden, 1974. | Printed By E. Blochmann And Son.

8°: 64 p. Print wrap. 19 x 12.7 cm(7 1/2 x 5 in). Cut. LC 8-22897.

Very brief descriptions of selected items in Rooms One through Eight of the Dresden Green Vaults; for a fuller descriptions of the vaults and contents see Menzhausen, cited above.

2496. -----1876, 3rd Ger edit

Beschreibender | Catalog | Des | K. Grünen Gewölbes | Zu Dresden. | [coat-of-arms] | Von Hofrath Dr.J.G.Th.Grässe, | Director Des Grünen Gewölbes. | [rule] | III^{te} Verbesserte Und Vermehrte Auflage. | Alle Rechte Vorbehalten. | [taper rule] | Dresden 1876.

8°: XII, 124 p; 13 wood engrav fig; ch orns, inits. Dull green paper over cardbds, title in frame on cover. 17 x 10.8 cm(6 3/4 x 4 1/4 in). Cut. JSL.

A much more detailed description of the contents of the 8 rooms of the Green Vaults of Dresden in which are housed the accumulated treasures of the electors of Saxony, Germany. The preface discusses the history of the royal house and the persons responsible for the formation of the collection and subsequent additions thereto, the growth of the collection, its status at several points in time according to old inventories, and other matters, all supported with footnote references. Each chapter

takes up the contents of a single room: Bronze Room, Ivory Room, Chimney Room, Silver Room, Great Salon, Corner Cabinet, Arms Room, and the Jewel Room, and further provides descriptions of the rooms and furnishings as well as the objects displayed in each. Several major items are depicted in the text figures. Menzhausen notes that a collection of photographs was available for purchase, entitled *Das Grüne Gewölbe zu Dresden. Hundert Lichtdrucktafeln*, Verlag Paul Bette, Berlin, no date.

2497. GRAU VILLARRUBIAS, JUAN

Dr.Juan Grau | El Mundo | De Las | Piedras Preciosas | Su Ciencia, Su Tecnica | Y Su Leyenda | [logo] | Ediciones Cientificas OIKOS | Marcelo T. De Alvear 628 - Local 14 | Buenos Aires | Rep. Argentina [1973]

8°: 254, [1], [1 blank]p, the first f is blank; 95 fig; 68 col photos on 10 tip-in glossy f not included in pag. Light brown, wood-grained paper over bds; gilt titles on black panels on front cover & spine; gold dj with 3 col photos; flap biogr of author. 22.7 x 15.9 cm. JSL.

Cont: blank f; tp; publ data; tab cont; introd; the lapidary hobby; text in 3 parts; epilog; property tabs; gloss; biblio(p 2115-7, 51 entries); index; print data; blank p.

A popular treatise on gemstones and a unique publication in South America where such topics as amateur lapidary work are not treated in ordinary gemological books. The language is simple and readily understood by the layman. The first of three parts discusses gemstones according to chemical-crystallographical classes from elements to silicates, hence taking an arrangement that differs from that used in most gemological texts. There is a second part on lapidary work which, though large, suffers from attempting to condense a textbook on lapidary work into an unreasonably small space; the predictable result is loss of vital instructional detail. The chief function of this part is to show that basic cabochon work is easy and that it can be done in Argentina and Chile as a cottage industry. The third and last part provides brief essays on the powers and magical properties attributed to gemstones, treating 22 stones in all, from agate to zafiro or sapphire. On the whole, the author appears to have written this and other works as public-spirited attempts to increase gem and mineral knowledge among South Americans and to encourage development of local industries based on untapped mineral resources. Among the latter are the lapis lazuli of Chile and the rhodochrosite of Argentina which have mostly been shipped out in raw rather than in processed forms.

2498. -----1981, 2nd edit

Dr.Juan Grau |... | Segunda Edicion | [logo] | Ediciones OIKOS Ltda. | Casilla 14670 | Teléfono 30963 | Santiago de Chile [1981]

8°: blank f tip-in + 254, [2 blank]p; 31 text fig; 13 col photos on double glossy f sewn-in. Glossy black wrap, inward-fold flaps; col photo on cover; small col photo of author, vita, back cover. 22 x 15.8 cm(8 5/8 x 6 1/4 in). Cut. Inscripcion N° 52105. JSL.

Cont: blank f; tp; publ data; dedic; tab cont; pref to 2nd edit; introd; remainder same as in 1st edit.

A much cheaper production, omitting most of the color photographs and printed on ordinary text paper instead of glossy paper as before, with the result that text photos are severely blurred. The preface does not indicate any changes in text; hence this is a reprint. The author takes credit for encouraging growth of local lapidary industries in Chile and Argentina.

2499. -----1974

Apuntes Sobre | Las | Piedras | Gemas | Nociones de Gemologia | Dr. Juan Grau V. [Santiago de Chile: priv publ, 1974]

Centerstapled: 40, [3], [1 blank]p; the first f is blank. Off-white wrap, blue title & abstract designs on covers. 21.2 x 16.2 cm(8 3/8 x 6 3/8 in). Cut. Inscripcion N° 37132. JSL.

Cont: blank f; tp; publ data; pref; gemstone descriptions; property tabs; astrological tab; gloss; epilog; index; advert; blank p.

This is a "short resume" of the information in the author's 1973 work but excludes all lapidary information.

2500. GRAVENDER, MILTON F

Fascinating Facts | About Gems | By | Milton F.Gravender | Certified Gemologist | With A Preface By | Robert M.Shipley | President, Gemological Institute of America | [in some copies the words "Presented By" appear here, with space meant to be filled by a company name] | Published By [in some copies the words "Published Especially For | The Retail Jewelers' Research Group | By" appear instead] | The Gemological Institute of America | Los Angeles [or, "Los Angeles, California" or "541 South Alexandria Avenue | Los Angeles, California [nd, 1933; title in double-rule frame]

Centerstapled: 64 p; 12 fig. Black, moire-pattern paper wrap, black title on gold panel; gold spine rules. Inner wrap surfaces green; similar moire-pattern translucent tissue paper flyleaves. 15.4 x 10.9 cm(6 x 4 1/4 in). Cut. $.25. JSL.

Brief descriptions and some scientific data on major and some minor gemstones and designed to inform the general public via local jewelry stores. There are many "editions" which are no more than reprints; the number of same appears in the title but sans date: the latest "edition" I have found is the 9th.

2501. GRAVES, HENRY B, COMPANY

fundamental faceting [title from cover; Delray Beach, Florida; probable author Henry B Graves(1896-1980), company founder; obit *Lap J*, 34, 9, 1980, 1994]

Centerstapled: 36 p; 38 numbered figs + 3 cutting diagrams + 3 unnumb photos. Glossy col wrap; tab cont inside front cover. 27.9 x 21.6 cm(11 x 8 1/2 in). Cut. $4.95. JSL.

Excellent, terse treatise on how to process rough gem material into finished faceted gems and emphasizing use of the company's products. An earlier publication was issued by the company under the title *An Introduction to Faceting*, ca 1969, 20 p, ill. Not seen.

GRAY, JANE, see LANGENHEIM, R L

2502. GRAY, JOHN WESLEY

Historic Romance of Diamonds | By | John Wesley Gray | Authority On Diamonds | [wavy rule] | "First Edition" | [wavy rule] | Graessle-Mercer Co. | Seymour, Indiana | [wavy rule] | Copyright - John Wesley Gray - 1944 | Printed in the United States of America | All Rights Reserved [title in single-rule frame]

Edgestapled: 76 p + p 76-A, 76-B + [1], [3 blank]p; the first leaf is also blank but counted in pag; 55 photos on 18

bound-in glossy f, one is front, remainder in text and includ in pag as supplementary pages and designated "A" and "B" plus page number; text fig. Pale green thick paper wrap, overlaps text, cover title & elaborate decoration in red-orange & black; back cover wrth large dollar sign and lett in red-orange & black. 22.7 x 15 cm(8 7/8 x 5 7/8 in). Cut. JSL.

Cont: blank f; tp; dedic; pref; ackn; tab cont; ill list; introd; text; poem; 3 blank p.

A curious but interesting melange of information on the diamond which begins with a rambling discourse on diamond in the Bible, then passes on to early knowledge of diamond, and some famous diamonds and historical events involving this gemstone. There is a reproduction of the *Chicago Daily Tribune* page announcing the discovery of the "Punch" Jones diamond in Virginia, dated May 11, 1944. Next appear descriptions and anecdotes of 26 famous diamonds, including photographs of many of same and several of the Queen of Holland diamond. Other topics include appraisals, industrial diamonds, travels in search of precious stones by the author and wife, cameos, Biblical anecdotes, rings, and many other tid-bits of lore. A photograph of the titlepage to Jeffries' *Treatise on Diamonds and Pearls*, 1750, appears on one of the plates and much of that book's text is quoted verbatim. Other photographs show famous gems, travel scenes, persons, gem cuts, rings, etc. The entire work is disjointed and of little real value and obviously was written for the amusement of the author. According to the introduction, Gray was a successful fur merchant in Chicago whose avocation was collecting gemstones. His wife, Grace Thomas Gray, unsuccessfully ran for mayor of Chicago in 1935. Rare.

2503. GREAT BRITAIN. LONDON. VICTORIA AND ALBERT MUSEUM

Princely Magnificence | Court Jewels Of The Renaissance, 1500-1630 | 15th October 1980 - 1st February 1981 | [col photo] | Debrett's Peerage Limited | in association with the | Victoria And Albert Museum [London, 1980]

8°: [1](inside front cover), 149, [1](inside back cover)p; 239 col photos, 61 b&w photos. Glossy wrap, col photo of crown on cover; 2 col photos back cover; spine title; glossary inside front cover; biblio & ill list inside back cover. 26.9 x 24 cm(10 5/8 x 9 1/2 in). Cut. ISBN 0 905649 42 7. £ 3.95. JSL.

Cont: gloss; tp; contrib & ackn; 7 prelim arts; catalog; biblio(back cover 35 entries).

Splendidly produced catalog of an exhibition of court jewels, crowns, regalia, personal jewelry, and other items, under the editorship(?) of A G Somers Cocks, of the Museum. Superb illustrations that are colorful and sharp stud the text but appear to be somewhat yellow in tone. Of special interest: articles by E Alan Jobbins, Institute of Geological Sciences, London on "Sources of gemstones in the Renaissance," p 12-9, and Dr Fritz Falk, Director of the Jewellery Museum, Pforzheim, "The cutting and setting of gems in the 15th and 16th centuries," p 20-26. However, all other parts of the catalog are also of interest due to the gemstones that are displayed and mentioned, also engraved gems. Short reference lists accompany most of the articles.

2504. GREATOREX, WILFRED

Diamond | Fever | by | Wilfred Greatorex | With 12 pages of illustrations | [logo] | Cassell & Co Ltd | London [1957]

8°: 223, [1 blank]p; 19 photos on 6 tip-in glossy f; text sketch map. Green cloth-type paper over bds, gold lett spine; col dj. 19.9 x 13.3 cm (7 7/8 x 5 1/4 in). Cut. 18s. JSL.

Cont: 1/2tp; tp; publ data; tab cont; ill list; map; introd; 5 parts.

The story of William Ernest Fleming's diamond mining adventures in the jungle rivers of British Guiana as told to the author. The time period is from before World War II to 1955. written in conversational style and emphasizing the sensational and with little on geology, mineralogy or mining. Rev *The Gemm*, 36, 317, 1957, 225-6; subsequently condensations from this work were published in this journal from vol 39, no 359, 1361, p 110 and ending in vol 31, no 371, 1962, p 114-117 (12 articles, 3-6 pp each).

GREEN, J M, see MACKENZIE, K J D

GREEN, LAWRENCE G

South Afr journalist, writer; b Kimberley; publ over 30 books as of 1967; most of his works now out of print.

2505. -----193-? Great African mysteries. London, nd, 8°, 284 p, 47 ill. Ch 3: "The sources of the diamonds in S.W.Africa." Not seen.

2506. -----1933

The Coast Of Treasure | by Lawrence G.Green | Putnam | London And New York [1933]

8°: [2 blank], 269, [1 blank]p; tip-in glossy front pl + 31 others, each with a single photo. Rough, unfin blue-green cloth, gold lett spine. Map endp. 21.5 x 13.7 cm(8 1/2 x 5 3/8 in). Cut. Tan dj, title in blue over maps in pale green; resume. Text paper simulates hand-laid. JSL.

Cont: blank f; 1/2tp; pl; tp; publ data; dedic; pref; tab cont; ill list; text tp; 15 chs; index.

Anecdotes of adventure and disaster, especially shipwrecks along the desert coast of South West Africa. Ch 6, p 106-10, gives brief remarks on a diamond rush in the Lüderitzbucht area with several good contemporary photographs. Ch 8, 129-46, discusses diamonds as deposited along the coast through the agency of the Orange River. Richly illustrated with fine, clear photographs; the endpaper maps, stylized in an artistic manner, show the coastline in two sections.

2507. -----1936

Secret Africa | By | Lawrence G.Green | Author Of | "Great African Mysteries" and "The Coast Of Treasure" | With 50 half-tone illustrations | London | Stanley Paul & Co., Ltd. [orn rule above & below title; 1936]

8°: 287, [1 blank]p; tip-in front photo pl + 49 photos on 15 glossy f tip-in. Green cloth, blind ruled frame front cover; gold lett & rules spine. Pale tan endp. 23 x 14.4 cm(9 x 6 in). Cut. JSL.

Cont: 1/2tp; pl; tp; publ data; tab cont; ill list; 17 chs; index.

Ch 5, p 42-59, contains a description of the out-of-bounds Namaqualand coast with its treasure of alluvial diamonds and is embellished with tales of diamond poaching and illicit diamond buying. Also described are the elaborate police precautions taken to secure the area against unauthorized entry. Ch 14, 219-27, is

on diamond mining in Kimberley and describes the mining methods, ore processing, native labor, and other aspects of the industry.

2508. -----1946

So Few Are | Free | By | Lawrence G.Green | [orn rule] | Howard B. Timmins | Monarch House | Long St. Cape Town | [logo] [1946]

8°: 250 p; photo front tip-in pl + 11 photos on single bound-in f. Pale blue cloth, dk blue panels on spine with pale blue lett. Map endp. 21.2 x 13.6 cm(8 3/8 x 5 3/8 in). Cut. JSL.

Cont: 1/2tp; other Green bks; pl; tp; publ data; tab cont; ill list; introd; text in 2 bks; index.

Largely on the South West African coast,including stories of early diamond mining as recalled by the author or as obtained from those who were present at the time. Mentions of diamond and anecdotes concerning discovery, mining, and smuggling of diamonds appear throughout the text but most such material is to be found between p 116-59 and 217-8. The Seitz diamond case in which a cache of diamonds was secreted by the Germans from their British captors is described on p 230-6. Many of the episodes are repeated in the author's *Like Diamond Blazing*, see below, sometimes paraphrased, sometimes verbatim. This popular work was reprinted a number of times, the publishing history being taken from 6th impression: 1st edit, 1st impress Oct 1946, 2nd impress Dec 1946, 3rd in May 1947, 4th in Jan 1948, 5th in Apr 1949, and 6th in May 1950.

2509. -----1950, 6th impress

So Few Are | Free | By | Lawrence G.Green | Published by | Howard B. Timmins | 58, Long Street | Capetown | [logo] | for | Hodder & Stoughton Ltd., London [1950]

8°: [2], 253, [1 blank], [1], [1 blank], [2]p. Same ill. Pale brown cloth, black title panels on spine; man endp. Pale green dj with col painting view on cover, other publ bks, flap resume. 21.1 x 13.4 cm(8 1/4 x 5 1/4 in). Cut. 12s 6 p. JSL.

Cont: 1/2tp; other Green bks; pl; tp; publ data; introd; text; index.

2510. -----1962

Something Rich | And Strange | The Story of South Africa's Treasures, | Famous and unknown, Sunken and | Buried, and Some Personal Experiences | in the Search for Lost Hoards. | By | Lawrence G.Green | Author of "Eight Bells at Salamander", | "Great North Road", "Lords of the | Last Frontier" and other books on | Africa. | Full fathom five thy father lies; |...[5 more lines]...| Shakespeare "The Tempest" | 1962 | Howard Timmins | Cape Town

16°: 258, [2 blank]p; tip-in col glossy front pl; 34 photos on 9 bound-in & tip-in glossy f; 4 text maps. Off-white cloth-type paper over bds, brown spine title; map endp with title. Col dj, resume, vita, author portr & other bks by author. 21.3 x 14 cm(8 3/8 x 5 3/8 in). Cut. JSL.

Cont: logo; note on author's bks & sales figure; pl; tp; print data; tab cont; ill list; 22 chs; index; blank f.

As in his other books, Green tells tales of lost treasures and adventures seeking same, and incidentally describes searches for diamonds. Among these are large sections in chapters 6, 11, 15, and 16, the first three on alluvial diamonds along the coastline of South West Africa and the last on the mystery of the missing half of the Cullinan diamond.

2511. -----1967

[double rule] | Like Diamond | Blazing | [double rule] | The story of the diamonds of | South Africa and the men | who sought and found and stole | diamonds in strange places | Lawrence G.Green | Illustrated | [logo] | Robert Hale · London [1967]

8°: 206, [2 blank]p; 21 photos on 6 bound-in glossy f; 2 text maps. Bright blue cloth-type paper over bds, gold lett spine. Col dj, resume, vita, other publ bks. 21.6 x 13.8 cm(8 1/2 x 5 1/2 in). Cut. Te stained yellow. 25/-. JSL.

Cont: 1/2tp; other Green bks; tp; publ data; tab cont; ill list; 18 chs; index; blank f.

Interesting anecdotes incorporating little-known information on the discovery and recovery of diamonds in the Kimberley district, the Kalahari Desert, the Vaal and Orange rivers, and in fuller detail, along the coast of South West Africa. Many of the stories, particularly those concerning South West Africa, were taken from earlier books of the author and in some cases reprinted verbatim.

GREEN, TIMOTHY (1936-)

Brit journalist, author; b Suffolk; some time edit *Illustrated London News*; publ a book on gold in 1968; present book his seventh.

2512. -----1981

The World of | Diamonds | Timothy Green | Weidenfeld and Nicholson | London [1981]

16°: vi, [3], [1 blank], 261, [1 blank]p; doublepage sketch map. Pale blue cloth-type paper over bds, silver lett spine. Col photo dj, resume, vita. 21.6 x 13.5 cm(8 1/2 x 5 1/4 in). Cut. ISBN 0 297 77926 5. £ 7.95. JSL.

Cont: 1/2tp; tp; dedic & publ data; tab cont; pref; map; introd; 16 chs; biblio(p 253, 13 entries); index.

Dj: "Timothy Green has travelled 59,000 miles and visited 15 countries to put together the first-ever inside story of what is a ruthless, secretive and often illicit world." Despite this overblown language, the text is factual, obviously researched carefully, yet written interestingly and free of journalistic jargon. The introduction describes the nature of diamond, its origin, sources, and other features with an explanation of its great importance in ornament and in industry. There are two chapters on the history of diamond with most space devoted to discovery and exploitation in South Africa. Chapters 3 to 9 treat diamond origin, type-deposits, then major mines in Africa, USSR, South America, and Australia. Next are chapters surveying the industry after the diamonds are mined and entered into the channels from which they eventually emerge in the markets and cutting centers of the world. The last part of the text deals with advertising the diamond, promotions, selling practises, the buyers, and diamonds as investments and in industry. In addition to the main bibliography, a number of chapters are supplemented with lists of references. The doublepage map shows routes traveled by rough and cut stones throughout the world. Excellent, useful work, free of bias and sure to be of permanent historical value. Rev INDIAQUA, no 30, 1981, 3, p 141.

2513. -----1981, New York edit

The | World | Of | Diamonds | [rule] | by | Timothy Green | William Morrow And Company, Inc. | New York 1981 [title enclosed in double-rule frame]

Cementb: 300 p; doublep sketch map. Gray-blue paper over bds, with gray-blue spine cloth; gilt spine title. Col photo dj, resume, vita, tab cont. Dull olive-yellow endp. 23.4 x 15.5 cm(9 1/4 x 6 1/8 in). Cut. LC 80-26196; ISBN 0-688-03731-3. $12.95. JSL.

Cont: 1/2tp; other Green bks; tp; publ data; dedic; pref; tab cont; text tp; map; introd; text; biblio tp; biblio(p 283-4); index tp; index.

Completely reset; notes and references at ends of certain chapters now omitted. Rev *G & G*, 17, 3, 1981, 179; *JC-K*, Jan 1982, 196, 198; much more thorough rev same journal Jan 1982, 78-9.

2514. GREENBAUM, WALTER W

The | Gemstone | Identifier | Walter W.Greenbaum, G.G. | Arco Publishing, Inc. | New York [1983]

Cementb: viii, 184 p; 36 line drawings, 8 unnumb text photos, 7 unnumb col photos(1 doublep) on 2 bound-in glossy f. Glossy black wrap, title & col photo on front; spine title; back cover price, resume, ISBN. 20.2 x 13.5 cm(7 7/8 x 5 3/8 in). Cut. ISBN 0-668-05391-7, paper, $7.95; cloth ISBN 0-668-05387-9. JSL.

Cont: tp; publ data; tab cont; ackn; pref; 25 chs; gloss; refs; index.

An over-simplified text which cannot be used in lieu of any standard text nor even considered as a supplement. As R K Mitchell, *J Gemm*, 19, 1985, p 546 states, "a largely superficial book containing many incorrect and confused statements and adds nothing to gemmology." Much space is given to topics that are simply not germane, eg, Ch 13 on facet cut styles, Ch 17 on gem evaluation, Ch 19 on deceptive nomenclature. The glossary is so poor that it should have been omitted. Inexplicably, not proof-read fully, nor its real value questioned.

2515. GREENE, PATRICK, editor

Proceedings of the | First International Congress on | Diamonds in Industry | held at the | Centre Des Conferences Internationales | Paris | 28 May to 2 June, 1962 [publ by Industrial diamond Information Bureau, London]

8°: [11], [1 blank], 407, [1 blank]p; many photos, diagrams, drawings. Pale blue cloth, white title on cover & spine. In stout tan cardbd slipcase. 27.8 x 21.6 cm(11 x 8 1/2 in). Cut. Glossy paper.

Cont: 1/2tp; tp; publ data; pref; tab cont; fwd; note of opening; technol section(23 articles); scient session(15 arts); index; author list; note; blank p.

The first or technological part is of only marginal interest to the gemologist although it contains some papers with information useful to lapidaries or makers of lapidary equipment. In contrast, the second scientific part contains numerous papers which provide useful information on the diamond and its properties, eg, semiconductivity, optical properties of irradiated diamond, hardness, and an excellent historical essay on the early attempts of Moissan and Hannay to synthesize diamond (M Seal, p 313-27, well-illustrated), surface topography(S Tolansky), growth of crystals, IR spectrum of types A and B diamonds, and IR absorption of natural and synthetic diamonds. Handsome, beautifully illustrated work.

2516. GREENHALGH, PETER West African diamonds, 1919-83; an economic history. Manchester: Manchester University Press, 1985, xiii, 306 n. £25.00. Not seen, rev in *J Gemm*, 19, 8, 1985, 734. Surveys activities of European firms in Ghana, Sierra Leone, other West African diamond-producing countries, and impact on land, labor, and environment through mechanized operations on large scale. Each ch with own ref list but there is also a general bibliography and index. Based on a thesis for the university. Greenhalgh is Senior Officer, Tropical Development and Research Institute.Unfavorably criticized by Bankole Timothy, INDIAQUA, no 42, 1985, 3, p 147-8.

GREGORIETTI, GUIDO (1907-)

Art connoisseur, instructor; b Palermo, Sicily; stud arts Rome & Palermo; took Chair of Design, Liceo Artistico, Palermo in early career, thence to Milan where apptd dir Poldi Pezzoli Mus 1943, holding this post 22 yrs; author jewelry entry *Encycl Brit.*

2517. -----1969 Il gioiello nei secoli. Milano: Arnoldo Mondadori - CEAM. Not seen.

2518. -----1969, New York edit

Guido Gregorietti | Jewelry | Through | The Ages | Foreword by Erich Steingräber | Translated from the Italian by Helen Lawrence | American Heritage | New York [1969; title on col photo]

6°[sic]: 319, [5 blank]p; 2 blank f at each end serve as pastedowns and flyleaves, the front leaves includ in pag. Ca 400 ill(about 1/2 in col). Vermilion, unfin cloth, jeweled bands on cover in gold; gold lett spine. Black dj, col photos on covers, resume. 29.3 x 20.6 cm(11 1/2 x 8 1/8 in). Cut. LC 74-83809; ISBN 8281-0007-1. $14.95, remaindered 1973 @ $7.95. JSL.

Cont: 5 blank p; col ill & tp; publ data; tab cont; ill; fwd; ill; introd; 8 chs; tab of gemstones; blank p; biblio(p 314-6, 156 entries); index; ackn; 5 blank p.

A large, lavishly illustrated book on jewelry of all ages but differing from most similar books by the inclusion of far more information on gold and gemstones instead of passing these over in incidental fashion as is too often the case. The gold is treated in the first chapter while colored gemstones are given all of the second chapter, p 87-127, with appropriate illustrations. This chapter provides general remarks on gemstones and then describes those used in Indian, Asiatic, Egyptian, and other ornaments, with a section on pearl. The diamond receives special treatment in the Baroque Period, 219-21, with specific remarks on coral immediately following. Modern discoveries and uses of diamond are also discussed in a section on 19th c jewelry, 269-81, which includes discoveries in South Africa, diamond in America, the trade, cutting, and descriptions of some famous diamonds, again with appropriate illustrations. Lastly, on p 308-12, is a table of gemstone properties with sources of rough, and periods in which the gemstones were used in jewelry. It is apparent that the author regards gemstones as of great importance as is evident from the many illustrations in which they are

prominent. The bibliography is large but no paginations are supplied. Rev *G & G*, 13, 4, 1969-70, 135-6.

2519. -----1969, London edit

Guido Gregorietti |...| Translated from the Italian by Helen Lawrence | Paul Hamlyn | London · Sydney [1969]

Dove-gray unfin cloth, gold spine title; col dj with single col photo back cover & 6 small photos on front. 29.1 x 20.4 cm(11 1/2 x 8 in). Cut. The last of the initial blank pages bears "To Flora." £3.50. ISBN 6002 1203. JSL.

2520. -----1971, Paris edit Le monde merveilleux des bijoux. 4°: 310 p, ill, cloth, d.j. Fr 790. Not seen.

2521. -----1978 Il gioelli. Milano: Arnoldo Mondadori Editore, S.P.a. 1978.

2522. -----1979, Engl transl

Guido Gregorietti | jewelry [sic] | [col photo] | History & Technique | from the Egyptians | to the Present | [col photo] | [logo] | Chartwell | Books Inc. [Secaucus, New Jersey, 1978]

8°: 166, [2 blank]p; 181 col photos; 1 b&w photo. Pale greenish-white paper over bds, silver spine title; silver dj with col photos both covers; flap resume & vita. 25.5 x 21.7 cm(10 x 8 1/2 in). Cut. ISBN 089099-1. JSL.

Cont: 1/2tp; front; tp; dedic; ackn & publ data; tab cont; text; tab of gemstones; biblio(p 164-6, 185 entries); blank f.

Beautifully designed & illustrated: traces history of jewels through the ages and depicts them in mostly top-grade color photographs. Ch 3, 19-31, on diamonds, pearls and coral; gemstones generally mentioned p 54-7, also engraved gems just after; other mentions and also in captions to illustrations. Table of gemstones used in jewelry: 160-163, giving hardness, color, sources, and period of greatest use for ca 20 gemstones and numerous varieties. Unfortunately the table contains numerous errors and strange inclusions as well as omissions, among the latter being marcasite and the omission of tourmaline. Bibliography with spelling errors and without paginations.

GREGORIETTI, G, see HEINIGER, E A & HEINIGER,J

2523. GREGORY, IRENE (Mrs James M) The fossil woods near Holley in the Sweet Home Petrified Forest, Linn County, Oregon, Oregon Dept Geol and Mineral Industries *The Ore Bin*, Portland, vol 30, no 4, 1968, 57-76, 9 fig(3 maps, photos), 4 pls(each with 4 photos); table: 33 ref. JSL. Silicified woods, collected for cutting & polishing: localities, geology, species, preparation of specimens, identification, special features. Other petrified wood articles by same author in same journal: "Fossilized palm wood in Oregon," 31, 5, 1969, 93-110, 9 fig(2 diagrs, sketch map, photos), 33 ref; "An ancient acacia wood from Oregon," 32, 11, 1970, 205-19, 3 fig, 10 ref; "A fossil pine forest in the Blue Mountains of Oregon," 34, 2, 1972, 31-8, 5 fig, 7 ref; "An extinct *Evodia* wood from Oregon," 38, 9, 1976, 135-9, fig, 6 ref.

2524. GREGORY, JAMES R Diamonds from the Cape of Good Hope. *Geol Mag*, London, 5, 1868, 558-60. Sent by Harry Emanuel, the London diamond merchant, to investigate the reported discovery of diamonds in South Africa, Gregory's report discounts the authenticity of the finds and declares them to be part of a fraudulent scheme to sell land. The lively controversy set off by this famous statement no doubt did much to cause careful investigation of the original matrix rock of diamond which before its confirmation in South Africa had been unknown. Since Dr W G Atherstone was the first to announce the true diamond matrix, his reputation was challenged by Gregory's article and he hastened to publish a reply, which see. In reply, Gregory published "Discovery of diamonds, etc. at the Cape," ibid, 6, 1869, 333-4. JSL.

GREGORY, THEODORE

Brit economist; prof econ London U; prof social econ Manchester U; Fellow London School of Econ; adviser to govts India, Gt Brit.

2525. -----1962

Theodore Gregory | [orn rule] | Ernest | Oppenheimer | And The Economic | Development Of | Southern | Africa | [orn] | Cape Town | Oxford University Press | London New York | 1962

8°: xx, 637, [1 blank]p; col glossy front pl tip-in, 2 fold col maps, 1 fold col chart, 30 b&w & several col photos on 24 glossy f tip-ins; 1 text fig. Dk blue cloth, gold lett & rules on spine. Blue dj, resume, author vita. V pale blue endp. 23.2 x 15.3 cm(9 1/8 x 6 in). Cut. Te stained blue. Southern Africa price R 8.40, Central Africa £4.40. JSL.

Cont: 1/2tp; pl; tp; publ data; fwd; ackn; tab cont; ill list; chronology; list of mining ministers; fold map; introd; 8 chs; epilog; biblio(p 599-609, several 100's); index; blank p.

Large, elaborate, thoroughly documented history of the Anglo American Corporation of South Africa with much on Sir Ernest Oppenheimer(1880-1957) and his crucial role in directing its affairs, and the impact of the corporation and its activities upon the economic development of Southern Africa. The continuing exploitation of the immense diamond resources, as well as gold, had much to do with the economy, and for this reason chapters three to five, entitled "The Diamond Story," p 109-383, provide an enormous fund of recent reliable information to which any researcher upon the diamond industry in Africa must turn. Further references to diamond appear elsewhere in the text in parts not specifically devoted to metal industries. In general, the developments take place in the period 1919-1925 with the formation of the new syndicate, Oppenheimer's assumption of chairmanship of De Beers, and the period of the "Great Depression," in the 1930's. The bibliography is of considerable value with its numerous diamond references and events and persons connected with the diamond industry.

Ernest Oppenheimer, b Friedberg, Hesse, Ger 1880; to London at age 16 to enter diamond trade; sent to Kimberley at age 22; investigated diamond properties in South West Africa for De Beers by age 27; Mayor of Kimberley 1912-15; formed Anglo-American in 1917, seated as chairman of board; mbr parliament for Kimberley 1924-38; chairman of board, De Beers, 1929; aided in forming Diamond Trading Corp 1933; d Johannesburg 1957.

A special presentation edition of the above was issued in the same year: contents same, but bearing recto on front flyleaf: "[orn] | Presented to | [inserted name in handwriting] | by | [inserted sig of E.O.] | [orn] | This Is One Of The | Specially Bound Presentation Copies | Limited In Number To | 150" It is bound in full dark blue morocco, gilt title, rules, blind-ruled

bands, and gilt panels on spine; composite endpapers of Cockerell hand-made marbled paper and pale grayish blue paper at each end. All edges gilt. JSL.

2526. GREVILLE, CHARLES FRANCIS(1749-1809) On the corundum stone from Asia. *Phil Trans Roy Soc London*, 88, 1798, 403-48, pl. Not seen.

2526A. -----1800 Same, transl into Ger by Sigmund August Wolfgang von Herder(1766- 1838), in *Neuen Bergmännischen J*, Freiberg, 3, 2, 1800, 90-208. Not seen.

2526B. -----1809 xix. On the Corundum Stone from Asia.p 403. *The Phil Trans... Abridged*, London, 18, 1809, 356-78. JSL. First significant monograph on corundum; treats the massive non-gem material from India, used there and elsewhere as an abrasive for cutting gemstones, and describing a large block of same used as a hand-rubbing lap for cutting cabochons. Parts of a letter to Greville by Sir Charles Oakley, 1792, report the occurrence of this type corundum in one deposit in India. The specific gravity is stated and also the characteristic parting as well as remarks on a Chinese wire saw that employs crushed corundum. Other remarks on the appearance of stars upon suitably oriented crystals, differences in specific gravity between corundum and the so-called "octahedral ruby" or spinel, chemical analyses of corundum and a dissertation on the progress of crystallography. The last is by way of an introduction to a translation of a paper on corundum by Count Bournon, entitled "An analytical description of the crystalline forms of corundum, from the East Indies, and from China," 368-77. This essay is followed by a table prepared by Greville giving the specific gravities of corundum, sapphire, topaz, ruby, and diamond, as given by various authorities. Pogg I, 952.

GREWINGK, CONSTANTIN CASPAR ANDREAS (1819-1887)

Ger mineralogist, but career spent in Russia; PhD; from 1857 prof mineralogy Dorpat U. Pogg 4, 533. Biogr: *Sitzungsb Naturforsch Ges Dorpat*, 8, 1887, p 279-96; *NJb Min* Jg 1888, I, 4 p.

2526C. -----1854 V.Die Smaragd-Gruben des Ural und ihre Umgebung von C.Grewingk. *Verhandl Russisch-Kaiserlichen Mineralogischen Ges zu St.Petersburg*, Jg 1854, no 5, 206-33, 7 plans, engrav fold hand-col map; JSL. Same, in Russ: Uralskie izumrudnye kopi i ikh okrestnosti, *Imperatorskoe Mineralogicheskoe Obshchestva, Zapiski*, 1854, etc. The emerald mines of the Urals: location, history, emerald formations and petrology, the "systems" of talcose-schists with emerald-bearing mica schists, pits and mines in each belt, choice of prospecting sites, suggestions for mining. Map is ca 30 x 19 cm(12 x 7 1/2 in), lightly hand-watercolored in hues keyed to rock formations, and with streams and roads indicated. It is perhaps the first map of these mines and also the first good description.

2526D. GRIEGER, JOHN M, Editor

Grieger's | Encyclopedia | Guide for | Rockhounding | Gem Cutting | Lapidary | and | Jewelry Arts | also includes selected | articles from | "The Exciting World of | Rocks and Gems" | Grieger's, Inc. | 1633 E.Walnut Street | Pasadena, Calif, [1960; wrap title only]

Edgestapled: 96 p; ca 100 photos, 50 figs. Glossy wrap, col, dec, & with title. 21.6 x 16.7 cm(8 1/2 x 6 1/2 in). Cut. $1.00. JSL.

Contains 35 articles: collecting sites, identification of rocks, making a dichroscope, U-minerals, fluorescence, cultured pearls, diamond saw blades, faceting, etc. Reprinted: Oct 1962, Nov 1966.

2527. GRIGORIEV, D P Samotsvety Urala. Sverdlovsk: OGIZ Sverdlovskoe Oblastnoe Gosudarstvennoe Isdatelstvo, 1944. Centerstapled: 8 p, double leaf glossy color plate in centerfold of rough gemstones; another glossy plate in col at end. Plates attractively drawn, fairly realistic. Gemstones are beryl, emerald, topaz, amethyst, alexandrite, jasper, amazonite, rhodonite, malachite and marble.

2528. GRIGORIEV, I F & DOLOMANOVA, E I Topaz iz mestorozhdenii kassiteritovo- kvartsevoi formatsii Zabaikalya i ego metasomaticheskie izmeniya. *Trudy Mineralogicheskogo Muzeya (im A.E.Fersmana), Akademiya Nauk, SSSR*, Leningrad, 6, 1954, 86-116. Not seen. Topaz in cassiterite-quartz formations in the Transbaikal.

2529. GRILL, EMANUELE(1884-) I minerali de'ornamentazione italiani. *Istituto lombardo di Scienze e Lettere, Milano, Rendiconti, Cl di Sci matemat naturali*, 73, 1940, 355-65. Brief descriptions & occurrences of Italian gemstones: quartz crystals, green garnet, zircon, topaz, spessartine, grossular, demantoid, tourmaline, beryl, peridot, opal, euclase, idocrase, diopside, spinel, epidote, chrysocolla, datolite, fluorite, and others, but few of these yield pieces or crystals large enough to cut gems. Biblio, p 366, 16 entries. E G prof mineralogy Modena U, later Milano U. Pogg 6, 953.

2530. GRIQUALAND WEST. BOARD FOR THE PROTECTION OF MINING INTERESTS Our diamond industry. Published by the Board... May 1885. Printed by Radford & Roper... Kimberley,Griqualand West, Cape of Good Hope. 1885. 8°: 109 p. Not seen, from Mendelssohn who further states "an account of the proceedings of the Board ...with respect to their efforts to get the "Diamond Trade Act" extended to the whole of the Cape Colony. Some interesting civil and criminal cases bearing on the subject are quoted and the judgments given in full, and there are chapters upon the trapping system, and upon the moral and commercial effects of illicit diamond buying."

2531. GRISWOLD, L S Whetstones and the novaculites of Arkansas. *Ann Rept Geol Survey Arkansas for 1890*, 3, Little Rock, Press Printing Co., 1892. 8°: xviii, [1], 443 p; front pl + 8 others, several fold, all tip-ins; 10 fig; 2 col geol fold maps, one in each endpaper pocket. Black cloth, gilt. 22.1x 14.6 cm(8 3/4 x 5 3/4 in). Cut. JSL. Some of the colorful and/or brecciated novaculite of Arkansas finds use in lapidary work. The present volume is a detailed and highly interesting historical, geological, economical and mineralogical study and contains a useful history of abrasives in general. LC 5-5438.

2532. GRODZINSKI, PAUL

Diamant-Werkzeuge | Darstellung der Anwendung | des Diamanten in Industrie | und Gewerbe | von | Dipl.-Ing. Paul

Grodzinski | Mit 130 Abbildungen und 30 Tafeln | [logo] | Berlin W, Verlag Von M.Krayn | 1936

16°: [7] + 214, [1 blank], [1]p + [7]p, the first & last groups of pages being adverts, with terminal leaves cemented to inside back covers; 130 figs, 30 tabs. Glossy paper over front bd, showing photo & title; brown cloth spine; tan paper over back bd. 14.8 x 10.6 cm(5 7/8 x 4 1/4 in). Text & bds cut flush. Mk 4.90. JSL.

Cont: adverts; tp; publ data; tab cont; fwd; 12 chs; append; ill lists; blank p; print data; adverts.

First comprehensive account in book form of modern technological uses of diamond. Chapters on mining, sorting, and commerce, diamond properties, tools, points, hardness testers, abrasives & polishing agents, methods of machining, glass-working, drilling, engraving, wire-drawing. Appendix: historical chronology of technological uses of diamond from 2000 BC and final entry 1923. Outstanding work. Sometime before World War II, the author emigrated to England where he produced an enlarged edition described below.

2533. -----1944, Engl edit, New York

Diamond Tools | Paul Grodzinski | Technical Consultant: Industrial Diamond Review | London, England | Anton Smit & Co, Inc | 333 West 52 Street, New York, 19, N.Y. | Dealers in Industrial Diamonds | Manufacturers of Diamond Tools [1944; title in ruled frame]

8°: vii, [1 blank], 379, [1 blank]p; 223 fig, 58 tab. Green cloth, gold lett & rules on spine. Pale tan endp. 20.3 x 13.8 cm(8 x 5 3/8 in). Cut.

Cont: 1/2tp; tp; publ data; introd; tab cont; 12 chs; blank p.

"The present English edition is based on the German edition of 1936 and was prepared by the writer personally. Some details and figures had to be revised... but the basic ideas remain unchanged." Almost an entirely new book with references added after each chapter.

2534. -----1944, London reprint

Diamond | Tools | Paul Grodzinski, A.M.I.Mech.E. | Technical Consultant: Industrial Diamond | Review, London | N.A.G. Press Ltd., | London, W.6 | Anton Smit & Co., Inc., | New York, 19, N.Y. [1944]

8°: xvi, v-vii[sic], [1 blank], 392 p; same ill. Green cloth, blind ruled frame on covers, gold lett & rules on spine. P size same. JSL. Contains new front matter, that is, an enlarged table of contents and illustration and table lists, also an index.

2535. -----1942

Diamond And Gem Stone | Industrial Production | by | Paul Grodzinski | N.A.G. Press Ltd | London [1942]

8°: 256 p + [7], [1 blank]p adverts on glossy paper; 183 fig, 32 tab. Dk red cloth, double-rule blind frame on cover; gold title & rules on spine. Pale tan dj, blue lett, other bks of publ, resume. 21.1 x 13.8 cm(8 1/4 x 5 3/8 in). Cut. 15/-. JSL; LC 43-17914.

Cont: 1/2tp; tp; publ data; tab cont; ill list; tab list; introd; publ note; 14 chs; biblio(p 225-7, 25 entries); 3 appends; index; adverts.

Text in two parts: first on general methods of machining, sectioning of stones, bruting, cutting & polishing, boring, carving & engraving, diamond powders, and diamond-impregnation of tools. The second part describes special manufacturing methods: treatment of ornamental gemstones, making bearings, wire-drawing dies, diamond crystals suitable for industrial uses, setting them in tools, and grinding sintered carbides. The appendices are miscellanies of information on other hard materials, grinding & polishing agents other than diamond, cleaning gems, cements, conversion factors, etc. Rev E H Kraus *Industrial Diamond Review*, 2, 22, 1942, 50; *Amer Min*, 27, 5, 1942, 394-5; G & G, 4, 3, 1942, 41-2, wherein S H Ball states "so far as the reviewer knows, this is the first book devoted solely to the industrial use of the diamond, precious stones and other extremely hard substances... to all intents and purposes, an artisan's vade mecum."

2536.-----1943, Chicago reprint

Diamond And Gem Stone |...| N.A.G. Press Ltd | London | Reprinted by permission Henry Paulson & Co. | 37 So. Wabash Ave. | Chicago, Ill. [1943]

Text same; p [4] bears reprint note & errata; diff adverts at end; dk brown-red cloth; p size same. Dj(?). JSL.

2537.-----1953, new edit, new title, London

Diamond Technology | [rule] | by | Paul Grodzinski | A.M.I.Mech.E. | Second revised and enlarged Edition | N.A.G. Press Ltd | London, W.6 [1953]

16°: xxxiv, [1], [1 blank], 784, [2 blank]p; 486 fig, 93 tab. Dk blue smooth cloth, gold title cover & spine. Pale tan endp. 20.9 x 13.6 cm(8 1/4 x 5 3/8 in). Cut. 52s 6d. JSL. LC 54-18277.

Cont: 1/2tp; tp; introd to lst edit; introd; text tp; 16 chs(in 2 parts); biblio(p 713-5, 38 entries); append; name index; subject index; blank f.

While entitled the second edition, it is so completely revised and enlarged that it bears little resemblance to the former edition except in organisation of contents. As before, it is divided into two parts, the first on general manufacturing methods and the second on special applications. The subject matter now covers every known tool, machine, device or application in which the diamond is in some way involved. Of great interest to the gem cutter are the chapters on carving and engraving, and the polishing of gemstones for jewelry. In regard to the latter, however, Grodzinski was not cognizant of recent advances in lapidary work in the United States nor with the large range of apparatus and accessories developed there to satisfy the growing interest in the gem cutting hobby and these advances and devices are largely ignored. The appendix is a potpourri of invaluable information and includes properties of certain hard gemstones, methods of cleaning diamonds and other gemstones, cements, solders, and other useful data. This work enjoys esteem and frequent consultation although recent publications supersede many information areas in Grodzinski's text. Rev *The Gemm*, 22, 263, 1953, 109-9; *J Gemm*, 4, 3, 1953, 132; *G & G*, 7, 12, 1953, 377.

2538. -----1948(?) Manufacture of diamond tools and their application in Germany from 1939-1945. London: N.A.G. Press Ltd, nd, ca 1948? Reprinted from *Ind Dia Rev*, 7, 1947, & 8, 1948. Stapled:58 p, 28 fig, 15 tab. Gray paper wrap. 24.7 x 18.4 cm(9 3/4 x 7 1/4 in). Cut. 7s 6d. JSL. Describes a wide range of tools and devices and includes sections on diamond powder & its manufacture, jewel bearing production, scientific

aspects of diamond, organization of the German industry, and a list of government reports.

2539. -----1950-51 Polishing gemstones for jewellery. *The Gemm*, 19, 231, 1950, 219-25, ill; 232, p 250-8, ill; 20, 234, 1951, p 14-18.

2540. GRODZINSKI, P & FELDHAUS, F M The history of diamond polishing. A contribution to the history of grinding. *Ind Dia Rev, Spec Suppl*, No 1, 1953, p 1-18, 22 + 6 fig. Centerstapled: pale gray-green wrap, title & vignette on cover, advert inside front & back covers, corrections inside back cover. 24.8 x 18.8 cm(9 3/4 x 7 7/8 in). Cut. 3s 6d. JSL. Grodzinski reviews the progress of diamond cutting from ancient times to the present, with fascinating illustrations taken from a number of old gemology works and books on crafts; there are 55 references. In a second article, Feldhaus provides an excellent chronological review of the progress in abrasive shaping of very hard materials, including gemstones, also illustrated with quaint line drawings and cuts; there are 79 references. Despite its brevity, this small work contains a great deal of valuable and interesting information.

GRODZINSKI, P see AUSTIN, A C & MERCER, M, 1946; also MAWE, J, 1950

2541. GROEN, N A

Diamonds and the Diamond | Industry. | Diamanten En De Diamant | Bewerking. | [double rule] | By N.A.Groen, Kimberley. | [double rule] | Cape Town: | Printed by Townshend, Taylor & Snashall, Loop Street, | 1892.

Centersewn: [1], [1 blank], 8 p; doubleleaf of wood engrav ills & pl. 24.4 x 18.5 cm(9 5/8 x 7 3/8 in). Full black leather, gold title on cover. USGS Kunz Coll, GS 34-453. Cont: tp; pl; text; pl.

English & Dutch(Afrikaans) in parallel columns; brief remarks on the cutting of diamond by a master cutter/cleaver working in South Africa. The first plate shows diamond crystals, styles of cutting and the apparatus for cutting while the second plate shows views outside and inside a diamond cutting plant.

GRONOV, GRONOW, or GRONOVIUS, JACOBO or JAKOB(1645-1716), see AGOSTINI, L 1694, 1699; also GORLAEUS, A, 1695, 1707

2542. GROSFILLEY, JEAN MATHIAS Origin, crystallization and prospection of diamonds. *Diamant*, Bruxelles, 49, 50, 1963, 18 p, ill. Not seen.

2543. GROSS, FELIX

Rhodes | Of Africa | by | Felix Gross | With frontispiece and | 12 pages of half-tone illustrations | [logo] | Frederick A.Praeger | New York [1957]

16°: ix, [1 blank], 433, [1 blank] p; tip-in glossy photo front pl portr of Rhodes + 21 photos on 6 glossy f bound in. Maroon cloth, gold spine title. Col dj, resume, other publ bks. 21.3 x 13.9 cm(8 3/8 x 5 1/2 in). Cut. $6.75. LC 57-7632. JSL.

Cont: 1/2tp; pl; tp; publ data; dedic; note; tab cont; ill list; 19 chs; index; blank p.

Originally published in London. "This book, the result of twelve years of research work, is based on authentic contemporary sources." Rhodes' first involvement in diamond industry, ch 2, 15-30, additional references to the diamond industry scattered in next several chapters, especially concerning problems associated with mining in pipe deposits. Epic struggle with Barney Barnato to consolidate mining claims in ch 7, 106-25.

2544. GROSS, G Jade, der neue Schmuckstein des Schweizer Heimatwerkes. *Heimatwerk*, Zürich, 28, 4, 1963, 129-48, ill. Not seen: Yang 1437.

2545. GROSSER, MICHAEL DE Phosphorescentia adamantum novis experimentis illustrata. Viennae: J.T.Trattnern, 1777. 8°: 47 p; another ref gives 31 p. Also as "La phosphorescence du diamant," *J Physique*, Paris, 20, 117-?, p 270-83. Not seen.

GROSSMANN, HERMANN & NEUBERGER, ALBERT, see BOYER, JACQUES.

GROTH, PAUL HEINRICH VON(1843-1927)

Ger mineralogist; b Magdeburg; stud Freiberg School of Mines & Coll Engineering Dresden, Univ Berlin; PhD Univ Berlin 1868; prof mineralogy U Strassburg 1872-83; founded *Zeitschrift f Kristallographie*, etc 1877, edit to 1920; U Munich 1883-. Obit, *Amer Min*, 13, 1928, 93-6; *Min Mag*, 22, 131, 1930, 392-5; DSB 5, 556.

2546. -----1887

Grundriss | Der | Edelsteinkunde. | [rule] | Ein allgemeinverständlicher Leitfaden zur Bestimmung und Unter- | scheidung roher und geschliffener Edelsteine | von | Dr. P.Groth | ord. Prof. a.d. Universität u. Conservator D. mineralogischen Sammlung | d. Kgl. bayer. Staates in München. | [rule] | Mit einer Farbentafel und dreiundvierzig Holzschnitten. | [taper rule] | Leipzig | Verlag Von Wilhelm Engelmann | 1887.

8°: VI, 165, [1]p; hand-col front pl bound-in with tissue; 43 wood engrav; ch orns. Brown cloth, elaborate gold frame on cover enclosing rule & title in gold; similar lett & dec on spine; back cover orn blind frames. Dk brown patterned endp. Ae stained red. Marker ribbon. 21.8 x 14.3 cm(8 5/8 x 5 5/8 in). Cut. Also in pale brown wrap, orn frame, etc on cover, spine as in cloth hinding. 22 x 14.5 cm(8 5/8 x 5 5/8 in). Paper Mk 5, cloth Mk 6. The cloth version with stapled sections. USGS 34-216. JSL.

Cont: pl; tp; rights note; fwd; tab cont; first part tp; text(2 parts); summary tab; price list of apparatus; index; press note.

A landmark in gemology, being the first attempt to introduce to the general public the use of several optical instruments in the identification of gemstones. Along with theoretical and practical discussions in the first part, these instruments are explained and instructions given on their use: polariscope, Bertrand refractometer, and Haidinger calcite prism dichroscope. Groth arranged with the firm of R Fuess, Berlin to make up these instruments and the price list for same is appended to the text. Also in the first part appear illustrations of optical phenomena observable through the polarizing petrographic microscope or through the polariscope. The second part describes principal gemstones and some uncommon species and varieties with property values given along with the usual descriptive material. A summary table, p 157-61, arranged according to color of cut gems, and including a section on gems displaying reflective phenomena, provides advice on how various similar-appearing gems may be distin-

guished. Written with meticulous attention to accuracy and clarity. Scarce.

GRUENLING, F , see GRÜNLING, F , below.

2547. GRUM-GRZHIMAILO, S V Okraska samotsvetov. *Zapiski Vsesoiuznogo Mineralogicheskogo Obshchestva*, ser 2, 87, 2, 1958, 129-50, 6 pls(1 a table, another fold). JSL. Coloration in gemstones as caused by coloring ions in the structures: garnet, spinel, corundum, beryl, tourmaline, dioptase, vesuvianite, euclase, topaz, chrysoberyl, olivine, epidote, cordierite, kyanite, Feorthoclase. The fold plate shows absorption spectra; others show crystal structures. *Min Abstr*, 14, 1, 1959, 40.

GRUM-GRZHIMAILO, S V, see BALYASHKO, E G

2548. GRUM-GRZHIMAILO, S V; KLIMOVSKAYA, L K & VISHNEVSKII, V N Metodika issledovaniya okraski mineralov, vyzvannoi Ti, Y, Cr, Mn, Fe, Co, Ni, Cu. *Mineralogicheskii Sbornik*, Lvov, 6, 1952, 229-46. Not seen.

2549. GRUNDKE, WILLIAM The art of intarsia. *Gems & Min*, no 530, 1981, p 14 to part 7, 536, 1982, p 34 ff. Ornamental stone inlaying.

2550. GRUNDMANN, GÜNTER Die Mineralien des Smaragdvorkommens im Habachtal. *Lapis* München, 10, 2, 1985,13-33, 48, 49; 25 sketches & maps; 22 photos, mostly in col. JSL. Comprehensive, expert article on the emerald deposit in the Habach Valley, near Salzburg, Austria: discovery & history of mining, regional and local geology, parageneses, beryl mineralization, associated species; 65 references.

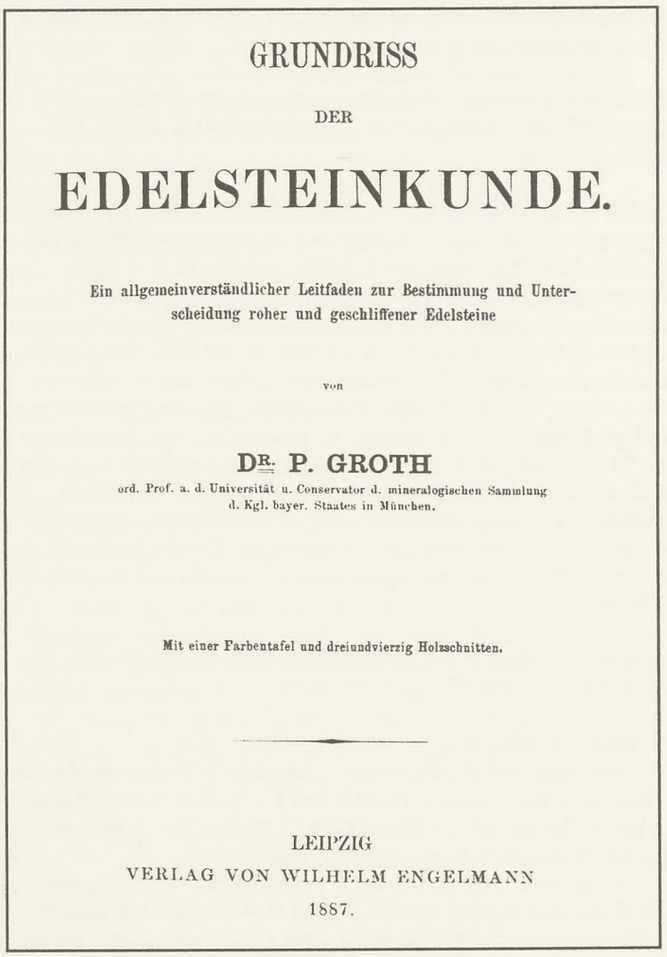
2551. GRUNDTVIG, F L Løsningsstenen. Et Sagnhistorisk Studie Af F.K.Grundtvig. Kjøbenhavn. Karl Schønbergs Boghandel. Nielsen & Lydiches Bogtrykken. 1878.

8°: [14], 176, [4]p. 19.3 x 12.8 cm(7 5/8 x 5 in). Cut. Cont: tp; fwd; biblio(9 pp, ca 135 entries); text; tab; errata.

The cultural history of stones to which magical and medicinal powers have been ascribed; hence the title which literally means "parturition" stones, referring to those that have been applied to women to ease the pains of childbirth. Excellent, scholarly, of considerable value and a useful guide to pertinent older literature. Among the stones that are described and discussed are schamir, from the Hebrew for a "hard" stone, possibly diamond or emery, spraengroden, or literally "root breaker," ravnstenen, or raven stone", aëtiten, or "eagle stone", and the gribbestenen or "vulture stone"; also the fabulous sejerstenen or "victory stone", livstenen, "life stone", usynlighedstenen, or "invisibility stone", vettenyren or "giant's kidney," chelidonius, the "swallow stone", and the alectorius, an unknown.

GRUNER, L, see LANDSBERG, A B von

2552. GRÜNLING, F Über die Mineralvorkommen von Ceylon. *Zs Krist*, Leipzig, 33, 3, 1900, 209-39, pl(part col map). Reports on a collecting trip to Ceylon in 1896-7: geography, pearl fishery & statistics of same, general geology, petrology, history of mineral production with much on graphite but also on gemstones(p 230-7) followed by other minerals and metallic ores.



GRUNDRISS

DER

EDELSTEINKUNDE.

Ein allgemeinverständlicher Leitfaden zur Bestimmung und Unterscheidung roher und geschliffener Edelsteine

von

DR. P. GROTH

ord. Prof. a. d. Universität u. Conservator d. mineralogischen Sammlung d. Kgl. bayer. Staates in München.

Mit einer Farbentafel und dreiundvierzig Holzschnitten.

LEIPZIG

VERLAG VON WILHELM ENGELMANN

1887.

2546. One of several scientific gemological treatises written by German mineralogists in the latter part of the 19th century

2553. GRÜNN, HELENE Perlmutterkunst in alter und neuer Zeit. 73. Sonderaus-stellung des Niederösterreichischen Landesmuseums. Wien 1, Herrengasse 9. P [ii]: "Verlag des... Landesmuseums... Katalog Neue Folge Nr.3, Wissenschaftliche Bearbeitung, Planung und Text: Dr.Helene Grünn," Nd, ca 1972?

Cementb: [ii], 28, [2]p, 6 photos on 2 glossy f includ in pag. Purple wrap, title on cover; back cover white. 20 x 20 cm(7 7/8 x 7 7/8 in). JSL.

A unique exhibition of works of art, small utilitarian objects, and jewelry made wholly or in part from nacre. The text gives basic information on the nature of nacre and its provenance, especially the material obtained from the thicker-shelled species of Unio that inhabit central European waters. Much is also given on folklore associated with pearl and nacre, and the use of the material in ornament with remarks on the industry that apparently was important in Austria during the 19th century. Articles on exhibit included shells, equipment used by makers of ornaments, pipes and pipestems, pins, tableware, boxes, clocks, small containers of various types, rosary beads, and jewelry.

GRUNOVIUS, or GRUNOW, SIMON, see HARTMANN, P J, 1677

GÜBELIN, or GUEBELIN, EDOUARD or EDWARD JOSEF (1913-)

Swiss jeweler, gemologist; b Lucerne; stud mineralogy and art hist Zürich U & Wien U; stud gemology under Prof H Michel in 1936 in Vienna and under Prof Dr K Schlossmacher, Königsberg, Ger 1937; Dr(rer nat) 1938; 1939 CG from Gem Inst Amer in 1939; ent family jewelry business in Switzerland; Fellow, Gemm Assoc Gt Brit 1946 & Research Dipl 1957; other gemological titles & honors from many countries; Hon Prof U Stellenbosch, South Africa; retired from family business 1967; extremely prolific author with special interest in inclusions in gemstones.

2554. -----1942

Saphire | und | Rubine [blue gem above title and red gem below; Luzern: E.Gübelin [Co], 1942]

Centerstapled: 32, [4] p; 12 ill(several col photos, others part col or plain). Glossy black wrap, col map of India & S E Asia on cover; pale blue endp. 14.9 x 9.5 cm(5 7/8 x 3 3/4 in). Cut. JSL.

Promotional brochure on sapphire and ruby, presenting the basic facts and with remarks on inclusions, and price-trend table for 1869 to 1938.

2555. -----1944 Gemstone inclusions. *G & G*, 4, 10, 1944, 142-49; 11, 158-63; 12, 174-9; 5, 1, 1945, 205-10[sic]. Each art ill. Also, ibid, "Inclusions as a means of identification," 5, 2, 1945, 226-31; 3, 242-7; 4, 270-4; 5, 1946, 294-300; 6, 318-23, ill.

2556. -----1948 Gemstone inclusions. *J Gemm*, 1, 7, 1948, 7-39, 79 fig.

2557. -----1948 Die diagnostische Bedeutung der Einschlüsse in Edelsteinen. *Schweiz Min Petrogr Mitt*, 28, 1, 1948, 146-56, Pls I-V. Also separate. JSL. Diagnostic importance of inclusions, especially as related to time of formation and as found in diamond, corundums, beryls, garnets, tourmalines, spinels and moonstones. Photos of inclusions.

2558. -----1950 Diagnostic importance of inclusions In gemstones. *J Gemm*, 2, 7, 1950, 281-303, 48 fig. As above.

2559. -----1952

Eduard Gübelin | Edelsteine | [logo] | [rule] | Hallwag Bern [Switzerland, 1952] ["Orbis Pictus Band 12"]

4°: 10 p + [38]p, 18 col pls. Patterned pink paper over bds; title in col boxes on cover & spine. 18.6 x 12.1 cm(7 3/8 x 4 3/4 in). Cut. JSL.

Cont: tp; publ data; introd; pls; pls list.

An exquisite booklet with a general discourse on gemstones to begin with and eighteen fullpage colored plates superbly executed in watercolors by Walter Wild, each plate depicting several rough/cut stones with explanatory text facing. The printing history of this booklet is difficult to unravel and I know only one German reprint labeled "Orbis Pictus Band 11 ," in bright red plasticized paper bds, with color illustrations on cover.

2560. -----1955, Fr edit, Lausanne

Edouard Gübelin | Pierres | Précieuses | [rule] | Payot Lausanne [1955]

White paper wrap, plain, enclosed in plasticized outer wrap with col ill on cover, pale tan lett, inward-fold flaps bearing adverts. 18.5 x 11.8 cm(7 1/4 x 4 1/8 in). Cut. JSL.

2561. -----1963, Engl edit, Berne

Eduard Guebelin | Precious Stones | [logo] | Hallwag Berne [1963] JSL.

Labeled "Orbis Pictus 9;" plain white bds, pale greenish dj with col pl of gems paste-on, Reprinted 1973 and called "third edit;" dj now dispensed with and pale grayish-tan paper printed directly with col pl. Another edition in Italian? Not seen. LC 63-0242.

2562. -----1953

Inclusions | As A Means Of | Gemstone | Identification | With 258 Illustrations | By | Edward J.Gübelin, Ph.D., G.G., F.G.A. | [orn] | Gemological Institute Of America | MCMLIII [Los Angeles: 1953]

8°: ix, [1 blank], [1], [1 blank], 220, [1], [1 blank], [1], [5 blank] p; col front, 256 inclusion photos. Dk blue pebbled cloth, gold title on cover & spine. 22.9 x 15.3 cm(9 x 6 in). Cut. $6.75. LC 53-539 rev. JSL.

Cont: blank p; other GIA bks; 1/2tp; front; tp; publ data; pref; tab cont; 23 chs; biblio(p 215-20, 59 entries); vita; blank p; press data; 5 blank p.

Unique among gemological monographs because of its very large number of inclusion photographs, taken by the author, and clearly explained in the accompanying text. Preliminary chapters discuss inclusions in general, types, formational causes, typical forms or accumulations, and inclusions in synthetic gem materials, glasses, and assembled stones. Treats diamond, corundums, beryls, garnets, topaz, spinels, tourmalines, quartzes, peridot, moonstone, andalusite, kyanite, zircon, and fluorite. The color frontispiece shows inclusions in natural sapphire and ruby. A greatly enlarged color plate version of this work, entitled *Innenwelt der Edelsteine*, 1973, which see, provides essentially the same information, augmented with new material, but the present work continues in demand because it is more readily understood in some respects and more easily referred to. It is now rare. Rev: R Webster, *The Gemm*, 22, 260, 1953, 53-4, "cannot be overlooked... for the subject dealt with may be found in no other book in such great detail and from... a writer who has studied the subject so fully." See also his comments in *J Gemm*, 4, 2, 1953, 78-80.

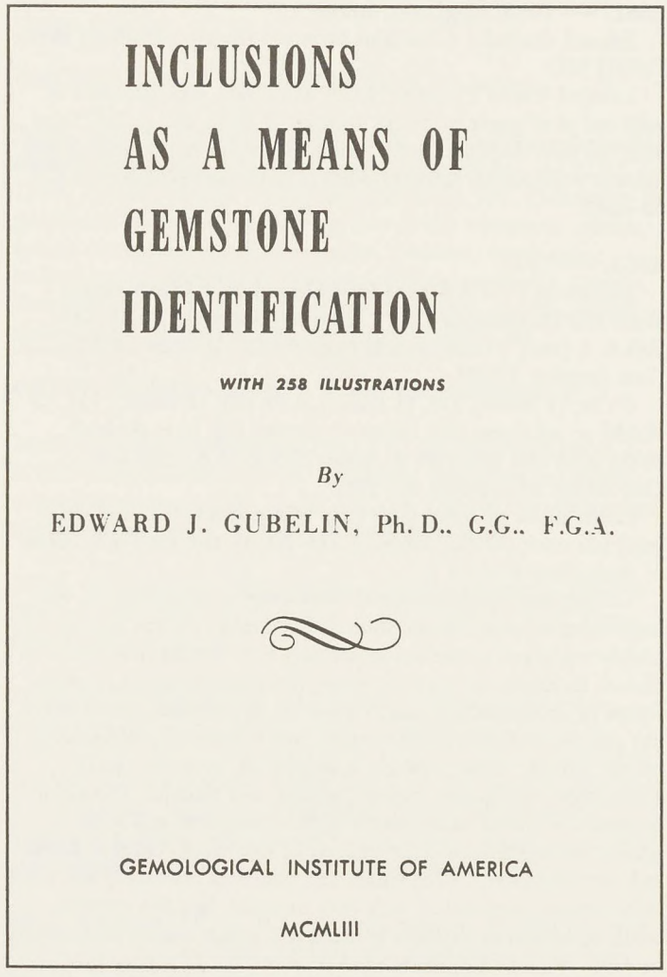
2563. -----1956 The emerald from Habachtal. *G & G*, 8, 10, 1956, 295-309, 14 fig, map, 11 ref. JSL. Properties & inclusions studied to help distinguish cut gems from emeralds from other sources. Provides history of deposit mining, locality, local geology, mineralogy, with photo views and inclusions.

2564. -----1956 Emerald from Habachtal. *J Gemm*, 5, 7, 1956, 342-6i, 14 fig, 3 tab; *Min Abstr*, 14, 1, 1959, 40-41.

2565. -----1957 A contribution to the genealogy of inclusions. *J Gemm*, 6, 1, 1957, 1-47, 60 fig, 6 ref; *Min Abstr*, 14, 2, 1959, 120.

2566. -----1958 Emeralds from Sandawana. *J Gemm*, 6, 8, 1958, 349-54, 7 fig, col pl, 6 ref; *Min Abstr*, 14, 2, 1959, 119; also in *Austral Gemm*, Jun 1959, p 6(14 pages).

2567. -----1960 Farbe und künstliche Farbveränderung von Diamanten. *Neuen Zürcher Zeitung*, "*Beilage Technik*," 12 Oct



2562. The first book to fully and adequately treat the problem of inclusions in gemstones, their significance, and usefulness in identification. Still much in demand

1960, no 3486, -7, -8, 20 p, 23 fig. Separate in pale gray print wrap. 29.8 x 21 cm(11 3/4 x 8 1/4 in). Cut. JSL. Historical review of scientific work aimed at altering diamond color and descriptions of modern methods of irradiation; points out differences between non-irradiated and irradiated diamonds and how detected. 59 refs.

2568. -----1961 Hydrothermal rubies and emerald-coated beryl. *J Gemm*, 8, 2, 1961, 49-63, 24 fig. JSL.

2569. -----1961 Der synthetische diamant. Zusammenfassung der Kenntnisse über den heutigen Stand der Diamantsynthese. Gemmologisches Laboratorium Gübelin Söhne, Luzern. *Neuen Zürcher Zeitung Beilage Technik*, Mittwoch, Jan 1961, Nr 185-7." Also separate, centerstapled: 23, [1 blank]p; 23 fig, Pale gray print wrap, cover title. 29.7 x 20.9 cm(11 3/4 x 8 1/4 inl. Cut. JSL. General history of attempts to synthesize diamond discussing materials and apparatus used, physical environment, and catalysts, With special remarks on the General Electric Company's apparatus and methods and the reactions and role of the catalyst in the pressure chamber. Notes on distinction of synthetic diamonds. 35 references.

2570. -----1961 Farbe und kunstliche Farbänderungen von Diamanten. *Deutsche Goldschmiede Zeitung*, Stuttgart, 59, 1961, 59-62, 130-3, 204-7, 282-85.

2571. -----1961 Ekanite another new metamict gem from Ceylon. *G & G*, 10, 6, 1961, 163-79, 191; 13 fig, sketch map, 2 tab. Also separate: centerstapled: p 163- 79 + [1]p; print wrap. 21.7 x 14.6 cm(8 1/2 x 5 3/4 in). Cut. JSL. Tentatively a calcium thorium silicate, from Ceylon gem gravels, named after F L D Ekanayaka who first drew attention to its remarkable properties. Essentially the same article repeated in *Zs Dt Ges Edelsteink*, 40, 1962, 29 p, ill, not seen, and *The Gemm*, 31, 373, 1962, 142-52, 16 fig, and 374, 165-69. *Min Abstr* 16, 4, 1963, 358.

2572. -----1965 Jadealbit - ein neuer Schmuckstein aus Burma. *Zs Dt Ges Edelsteink*, 51, 1965, as separate of 20 p, 13 fig(one in col, one map). JSL. Describes the handsome green massive material found in the jadeite deposits and called "maw-sit-sit" by the native miners. The mineralogical name jade-albite is proposed. This material has been variously named "chloromelanite," "Burma epidote," "chrome epidote," "Yunnan jade," etc. The material consists mainly of very fine-grained albite colored by chrome-jadeite. Essentially the same article in *G & G*, 11, 8, 1964, 227-38, 255, col pl, 13 fig and *J Gemm*, 9, 10, 1965, 329-44, col pl, 14 fig. JSL.

2573. -----1965 The ruby mines in Mogok in Burma. *J Gemm*, 9, 12, 1965, 411-25, 21 fig, col pl. Essentially same article in *Lap J*, 20, 3, 1966, 418-22; 4, 521-5, ill(col).

2574. -----1968 Die Natur der Mineraleinschlüsse in Edelsteinen. *Schweizer Uhren und Schmuck Journals und Schweizer Goldschmied*, 1968. Separate: cementb: [24] p, pls A-H, each with 10 col photos of inclusions. White paper print wrap, white cloth hinge strip. 26.4 x 20.2 cm(10 3/8 x 8 in). Cut. JSL. First comprehensive article on determination of inclusions in gemstones by means of the electron microprobe. Techniques described; results explained. Fine col illustrations. Essentially same article in *J Gemm*, 11, 5, 1969, 149-92, 80 col photos, 3 fig, 49 refs.

2575. -----1968

E.Gübelin | Gemmolog C.G., F.G.A. | Die Edelsteine | Der Insel Ceylon

P[4l: "Copyright 1968 by Gubelin Lucerne"

8°: 152 p,(p [1-2] blank); 26 col photos on 10 bound-in and tipped-in f and not includ in pag; sketch map; 77 fig(maps, diagrs, photos); 51 unnumb fig(photos). White plasticized wrap, col photo & black lett on front cover only. 23.9 x 17 cm(9 3/8 x 6 3/4 in). Cut. DM 36. JSL.

Cont: blank f; 1/2tp; publ data; tp; tab cont; 5 text parts; biblio p 150-2, 52 entries.

Aside from Iyer & Thiagarajan's *Indian Precious Stones*, 1961, which see, almost all information on the gemstones and gem industry of Ceylon has appeared in short articles scattered throughout a large variety of journals, both technical and

nontechnical. Thus the present authoritative work now clearly supersedes all the rest of the information so far published and is based on the author's numerous visits to the island. It is filled with splendid photographs both scenic and pertaining to the industry. The text gives a sketch of island geology as well as details on the alluvial deposits which furnish practically all of the gem material. Historical notes support the thesis that these deposits supplied gemstones to much of Asia, Egypt and Europe from time immemorial. The part treating mining is exceptionally detailed and beautifully illustrated and discusses all the factors that must be taken into consideration before commencement of a mining operation and the traditional rules by which such is governed. Equally thorough are descriptions of the unique lapidary work and the progress of the rough stone from mine to finished gem and ultimate sale. Descriptions of individual gemstones cover qualities, relative rarity, specific sources, properties, and diagnostic inclusions. Properties and data on absorption spectra are summarized in tabular form in the last part of the work. There is also a part, less detailed, on organic gem materials which furnishes an up-to-date account of the pearl fishery and contains remarks on coral and tortoiseshell. This work apparently was published at the expense of the author although it is understood that copies were also made available through Rühle-Diebener Verlag, Stuttgart @ DM 38, not seen. Rev *Der Aufschluss*, 21, 12, 1970, 384 (price given as DM 43); *J Gemm*, 11, 6, 1969, 220(price given as 70s); *National Jeweler*, 64, 1, 1969, 74-5.

2576. -----1969, Edelsteine series

Edelsteine | Text: Dr. Eduard Gübelin, Gemmolog, C.G., F.G.A. | Fotos: Michael Wolgensinger und Dr. Eduard Gübelin | Silva-Verlag Zürich [1969]

4°: 144 p; 80 col photos on 78 tip-on glossy f (of various shapes & sizes). Blue cloth type paper over bds; gold lett cover & spine. Dk blue & lavender map endp. Col dj, col photos. 29.5 x 20.7 cm(11 5/8 x 8 1/8 in). Cut. Each gathering supplied with paper hinge wrap-arounds to compensate for swelling caused by tip-on pls. According to ltr from author, press run of 50,000 copies. DM 45. JSL.

Cont: tp; publ data & ackn; tab cont; 35 chs; gloss(219 terms).

In this pictorial popular work, the author provides a non-technical description of the major gemstones in an almost poetic language that stresses the beauty and fascination of gems and deliberately suppresses dry scientific data. Thus the book begins with several chapters extolling the wonders of gems, their colors and their origins, the special beauty of gems that display color or reflective phenomena, inclusions in such gems as moss agates, and a little on splendid crystals from which gems are cut and their sources in nature. Other chapters touch on the arts of the lapidary, the diamond, the corundum family, and many other gemstones, ending with a chapter on the Idar-Oberstein agate-cutting and carving industry, and a very brief chapter on the true value of gemstones in terms of their aesthetic appeal. The book closes with a glossary in which technical terms are defined and basic properties of gemstones mentioned elsewhere are summarized. There is no index nor bibliography. The most obviously striking feature is the large number of superb color photographs which range from faceted gems, some of the finest to appear in illustration, to cabochons, carvings, natural crystals, view of lapidary work in progress, and scenes in famous gem mining areas, which are of particular value and reflect the author's wide travels, also jewelry, and objects of art made from stone. Rev *Zs Dt Gemm Ges*, 18, 4, 1969, 193-4; *Der Aufschluss*, 21, 12, 1970, 384.

2577. -----1969, Fr edit

Pierres Précieuses | Texte: Dr E.Gübelin, Gemmologue, C.G., F.G.A. | Photos: Michael Wolgensinger et Dr E.Gübelin | Editions Silva-Zurich [JSL]

2578. -----1969, Ital edit

Pietre Preziose | Testo: Dr E.Gübelin, Gemmologo, C.G., F.G.A. | Fotografie: Michael Wolgensinger e Dr E.Gübelin | Versione italiana: Ezio Dal Vesco | Edizioni Silva Zurigo [1969]

4°: 134, [1], [1 blank]p; same ill. Gloss now omitted. JSL.

2579. -----1975, Engl edit

The Color Treasury of | Gemstones | Text by Dr.Eduard Gübelin, Gemmologist, C.G., F.G.A. | Photographs by Michael Wolgensinger and Dr. Eduard Gübelin | Thomas Y.Crowell Company | Established 1834 New York [1975]

"The Crowell Pictorial Treasury Bookshelf"

8°: [6], 137, [1]p; same ill but now printed in text. Dk blue plasticized cloth-like paper over bds; gold spine title. Pale tan endp. Col dj, col photos, resume, other publ bks. 29 x 20.9 cm(11 3/8 x 8 1/4 in). Cut. $9.95. LC 75-15715. ISBN 0-690-00986-0. JSL.

Cont: 1/2tp; tp; ackn & publ data; tab cont; text; gloss.

Transl by Miss P B Lapworth, "excellent translation... in which she grasped particularly well the rather difficult poetical sense"(Ackn).

2580. -----1975, London edit

The Color [sic] Treasury of |...| Photographs by Michael Wolgensinger and Dr.Eduard Gübelin | [logo] Elsevier · Phaidon [London, 1975]

Except for front matter changes, identical to previous New York edit; in bright blue non-plasticized cloth type paper over bds; gold spine title. White endp. Similar dj. P size slightly smaller: width 20.8 cm(8 1/4 in). Cut. £ 4.50. ISBN 0 7290 0041 9. Rev *Austral Gemm*, 12, 10, 1976, 314. JSL.

END EDELSTEINE SERIES

2581 -----1973

E.Gübelin | Innenwelt | der Edelsteine | Urkunde | aus Raum und Zeit | ABC Verlag Zürich [1973]

Cementb: 233, [3 blank]p; ca 350 col photos, 3 col maps, 4 photos & sketches. Col, plasticized paper over bds; cloth-like plastic spine strip, white lett. Dk blue endp. Transp plastic sheet dj, with title, resume, vita, author's portr. 28 x 23 cm(11 x 9 in). Cut. Text parts preceded by colored sheet inserts bearing various designs patterned after enlargements of inclusions. DM 158 = ca £ 25.00, USA $55.00. ISBN 3-85504-030-3. JSL.

Cont: 1/2tp; tp; publ data; tab cont; dedic; introd; pref; text; ackn; gloss; biblio(p 233, 76 entries); 3 blank p.

Lavishly produced, handsome successor to the author's previous book on inclusions(1953) but differing in several notable respects, mainly through use of color photographs entirely and with considerable elaboration of text on the genesis of

inclusions. The introduction by W F Eppler provides a brief history of investigation of inclusions in crystals and describes the ways by which they can be examined and identified, including the use of the electron microprobe. Gübelin explains genetic type inclusions and the categories to which assigned, then passes to descriptions of inclusions typical of diamond, corundum, beryl, feldspar, garnet, peridot, quartz, spinel, topaz, tourmaline and zircon, with the final section of text describing characteristic inclusions in a number of synthetic materials. The glossary defines technical terms and gives brief descriptions of inclusion species mentioned in the text. The bibliography, unfortunately without paginations, touches on the important contributions to the study of inclusions but is not confined to those in gemstones but considers other minerals as well. The photographs of superb color guality and sharpness of detail are expected to provide ready visual reference as the student examines inclusions in the microscope. The lamentable use of cement-backing for so important a work is disastrous: already leaves spring loose from the first opening of the book! In regard to finding illustrations that are useful to any current project, Karl Zigerli indexed the work so that readers could quickly find crystals of the species and varieties and inclusions desired among the many illustrations; this index appears in *Zs Dt Gemm Ges*, 25, 4, 1976, 222-5. Rev: ibid, 24, 1, 1975, 51-2.

2582. -----1973, Engl edit

E.Gübelin | Internal World of | Gemstones | Documents | from Space and Time | ABC Edition Zurich [1973]

Cementb: 234 p; same ill, binding, dj, etc. SFr 168.00. ISBN 3-85504-030-3.

Straightforward translation by Miss P Lapworth and preserving the strong romantic flavor with which Gübelin suffuses his descriptions. For some reason, the bibliography is expanded, especially with entries under Eppler, to a total of 87, p 233-4. Rev R Webster, *J Gemm*, 14, 3, 1974, 141-2; *G & G*, 14, 10, 1974, 317-9; J Sinkankas, *Amer Min*, 59, 9/10, 1974, 1146; *Austral Gemm*, 12, 2, 1974, 58-9; R & M, 57, 6, 1982, 269.

2583. ------1978(?), Identical reprint; by Butterworth & Co(Publishers) Ltd, London, @ £55.00. Not seen.

END INTERNAL WORLD SERIES

2584. -----1976 Smeraldi di Sandawana. *La Gemmologia*, Milano, 2, 2, 1976, 5-18; ill. Not seen.

2585. -----1978 Il punto sulla ricerca in gemmologia. *La Gemmologia*, 4, 2, 1978, 5-21, 14 gem bks of recent date noted; 40 ref. Transl from Engl by Silvia Ginatta. Not seen.

2586. -----1978 Natur und Bedeutung der Mineral-Einschlüsse in natürlichen diamanten. Eine Übersicht: Eduard S.Gübelin, Henry O A Meyer und Hsiao-Ming Tsai. *Zs Dt Gemm Ges*, 27, 2, 1978, 61.101, 19 col photos, 6 fig, 13 tab. Also separate in print wrap & cover col photo. JSL. "An approved and enlarged translation of Meyer & Tsai's "The nature and significance of mineral inclusions in natural diamonds," *Minerals Science & Engineering*, v.8, no.4, 1976 [which see]." English synopsis; entirely new set of color photographs.

2587. -----1978 Jadeit, der grüne Schatz aus Birma. *Lapis*, 3, 2, 1978, 17-28, sketch map, col photos.

2588. -----1981 Die Eigenschaften der undurchsichtigen Schmucksteine und deren gemmologische Bestimmung, *Zs Dt Gemm Ges*, 30, 1, 1981, 1-61, tabs. JSL. Extensive valuable article on problems of identification of non-transparent gemstones: peculiar problems, limitations of methods used for transparent materials, useful methods as color, density, hardness, streak, spot testing, optical testing, microscopy, and tables useful for identification arranged according to material, similar-appearing stones, imitations, color, etc.

2589. -----1982 Neue Mikrosonden-Analysen von Mineral-Einschlüssen einschliesslich eines Rubins im Diamant. *Zs Dt Gemm Ges*, 31, 1/2, 1982, 23-40, 17 fig, 2 tab. Over 50 refs.

2590. -----1982 Mineral inclusions contribute toward elucidating the genesis of the diamond. *J Gemm*, 18, 4, 1982, 297-320, 21 fig(col photos), 15 ref.

2591. -----1982 Die Edelsteinvorkommen Pakistans. *Lapis*, 7, 5, 1982, 19-26, geol map, col photos; 6, 19-26, tab, col photos. Rubies of Hunza, emerald of Swat Valley.

2592. -----1983 Genetische Aspekte der Mineraleneinschlüsse in Farbsteinen. *Zs Dt Gemm Ges*, 32, 1, 1983, 10-27, 29 ill(col), 18 ref.

2593. -----1983 The recognition of the new synthetic rubies. *J Gemm*, 18, 6, 1983, 477-99, 42 col photos, 4 ref.

2594. -----1983 Identification of the new and treated sapphires. *J Gemm*, 18, 8, 1983, 677-706, 49 fig(mostly col photos), 20 ref.

2595. -----1985 Opale aus Mexiko. *Lapis*, 10, 1, 1985, 23-30, col photos(scenes, mining, rough & cut opals, inclusions). Important.

2595A. GÜBELIN, E J & KOIVULA, J I

Bildatlas der Einschlüsse Edelsteinen. Zurich: ABC Verlag, 1986, 532 p, 15 b&w ill, 1449 col photos. DM 384.00. Not seen; detailed rev *Zs Dt Gemm Ges*, 36, 3/4, 1988, 183-4. ISBN 3-85504-094-X. SFr 320.-

2595B. -----1986, Engl transl

Eduard J.Gübelin/John I.Koivula | Photoatlas | of Inclusions in Gemstones | with the cooperation of Prof.Dr.Henry O.A.Meyer |... [2 lines]...| Dr.Edwin Roedder |...[4 lines]...| Prof.Dr.H.A.Stalder |...[2 lines]...| ABC Edition, Zurich [1986]

4°: 532 p; 13 b&w drawings, ca 1400 col photos. Plasticized black paper over bds, col photo & white lett on cover; white lett spine; col photo & white lett back cover. 24.4 x 21.5 cm(9 5/8 x 8 1/2 in). Cut. ISBN 3-85504-095-8.

Cont: 1/2tp; tp; publ data & tab cont; dedic; pref; fwd; ackn; introd; text; concl; geol timetab; gloss; biblios(p 522-7, ca 135 entries); index to ill inclusions, etc; vitas.

A truly remarkable work and one of the major achievements in gemological literature of this century affording as it does both a vast treasury of outstanding colored photographs of inclusions and remarks on same which explain their origin and significance. Such explanatory remarks appear in part one, and are followed in part two by succinct descriptions of geneses with contributions by Roedder, Meyer, and Stalder. Part three now treats inclusions themselves, ranging from amphibole to zircon, and also inclusions of glass, fluids, multiple inclusions, aggregates, and others of remarkable form or nature. Part four, the major part, treats the individual gem materials that host inclusions from amber to zoisite, and including phenomenal gemstones and rare species. Part five describes inclusions in man-made materials, mineralic, plastic, glass, etc. The references cited and general literature are by no means exhaustive and some major contributions by such as David Brewster and Isaac Lea are unaccountably absent.

GÜBELIN, E, see also AUFSCHLUSS; BANK, H; CHUDOBA, K; HEINIGER & HEINIGER: KNISCHKA, P O; LEGRAND, J; STRANNER, H

2596. GÜBELIN SÖHNE Monatssteine [Luzern: Gübelin, nd, ca 1945?]. Centerstapled: [32]p; 12 part col ill of jewels; text sketches; orns. Blue paper wrap, dec with silver stars; pink flyleaves. 15 x 9.5 cm(5 7/8 x 3 3/4 in). Cut. JSL. Advertising & illustrating jewels set with birthstones and with a list of same in various epochs.

2597.-----1946 Perlen. [Luzern: Gübelin, November 1946]. Centerstapled: [2 blank], [2], 37, [3], [4 blank]p; 17 photos & text fig(part col). Col paper wra. 15 x 9.5 cm(5 7/8 x 3 3/4 in). Cut. JSL. The title part colored. Blue paper provided for 4 leaves.

2598. -----1965(?) [Untitled work on famous diamonds, issued by Gübelin, nd]. Centerstapled: [14]f; the first a 1/2f; also doublef insert of Japanese mulberry paper, the first f with small blue cut gem; 24 fig, 21 photos. Black glossy paper wrap, cut diamond photo & atomic diagr; back cover deep turquoise. White glossy f interspersed with tan paper f bearing lett & fig in brown. 21.2 x 21.1 cm(8 1/4 x 8 1/4 in). Cut. JSL. In German. Remarks on nature, mining, and cutting of diamonds, following which are historical thumbnail sketches of Florentine, Nassak, Sancy, Star of the South, Regent, Koh-I-Nur, Orloff, Piggott, "Elizabeth"(a pink stone); Matan, Shah, Eugénie.

2599. -----1965 Mogok - Tal der Rubine. *Zs für Kunden und Freunde des Hauses Gübelin*, Luzern, 1965, [15]p, ill. Not seen.

2600. GUDYNAS, P & PINKUS, S

P.Gudynas · S.Pinkus | Palangos Gintaro Muziejus | [to left, amber necklace] | Leidykla "Mintis" · Vilnius " 1964 [Palanga Amber Museum, Intellect Press, Vilna(Lithuanian S S R).]

Centerstapled: 64 p; 30 text photos, 3 maps, 17 col photos. Glossy wrap: photo of seashore & amber netters, and specimens of amber, in col on front cover; b&w photo back cover. Oblong: 14 x 21.5 cm(5 1/2 x 8 1/2 in). Cut. Rb 0.30(USA $.75). 25,000 copies. JSL.

Cont: tp; publ data; introd; 9 unnumb chs; maps; biblio & publ data.

The title indicates that this is a guide to the State Amber Museum in Palanga, Lithuania but in reality it is a general discourse on amber which covers all major aspects; only the first few pages describe the museum, its formation, and its founders, with photographs of the exterior and inside. The text itself takes up amber folklore, especially Lithuanian legends of amber, and also songs, and amber in native art, etc, then the origin of amber, inclusions, properties, beauty & value, commercial classes of amber, deposits, amber trade routes, early use of amber by Lithuanians, modern recovery of amber, and the the Lithuanian amber industry with works by named artists. Maps show amber deposits worldwide, ancient trade routes, and places in Lithuania where amber has been found in archeological sites (59 localities). The bibliography mainly lists Lithuanian writings on amber but there are several references to Latvian, German, Russian, and English works. The color illustrations show principally amber in rough & worked forms, ancient amber objects, and some modern jewelry. Black and white photographs include ancient amber figurines and other artificats, also views inside the museum.

2601. GUERRESCHI, G La problematica dell'ambra nella protoistoria italiana. Studi Etruschi, Roma, 38, 1970, 165-92. Not seen.

2602. GUFFEY, NEAL

Gem Appraisers' Guide.© Neal Guffey 1960 [Washington, D.C.; priv publ; cover title only]

Edgestapled: [1], 56, [1 blank]f; lettpress recto only; author photo on first f; outline drawings of gems cut in various styles on each leaf, f 3 to 56. Pale tan, heavy paper wrap; cover title; small gem outlines. 21.2 x 15.2 cm(8 3/8 x 6 in). Cut $5.00. JSL.

One leaf per gemstone, giving quality standards for "good" and "excellent" gems and with carat size printed with each outline drawing and with price in USA dollars; reprinted 1962, 1964.

2603. -----1970, 2nd edit

Gem | Appraisers' | Guide | The Brilliant... [10 lines] [wrap title only]

Cementb: ix, 67, [1 blank]p; portr; several hundred small outline drawings. Pale yellow wrap, cover title. 23 x 15.3 cm(9 x 6 in). $10.00. JSL.

Greatly enlarged, improved, with 65 table/diagrams for as many stones; includes some common materials, also engraved gems, pearls, synthetics, and several rarities.

2604. GÜHLER, ULRICH Studies of precious stones in Siam. *Siam Science Bulletin*, Bangkok, 4, 1, 1947, [1], [1 blank]p + p 1-39, 4 pls. JSL. Historical review of gemstones of Siam from the 5th century onwards with notes on alleged occurrences of diamonds as well as upon the well known corundum varieties and other gemstones. Describes occurrences and mining; notes on the gem gravels of Krat and Chantaboon, good account of the corundum deposits at Boi Ploi. Also discussed are cutting of gems, commerce, effects of synthetics on the industry, and a bibliography, p 36-8, of 33 entries which are mostly travelers' accounts. Last page describes recently synthesized star corundum.

2605. GUHLMANN, WALTER

Walter Guhlmann | Magische | Und Okkulte | Edelsteinkunde | Anleitung Zum Praktischen | Gebrauch Der Kräfte Der | Edelsteine Mit Genauer Be- | Schreibung Ihres Einflusses | Auf Die Lebensgeschicke Des | Menschen. Wie Man Sich Den | Einfluss Auf Andere Sichert | Und Glück Und Erfolg | Heranzieht | [zodiac orn] | 1926 | [triple rule] | Verlag Fr.Paul Lorenz · Freiburg (Baden) | Leipzig · Basel

Edgestapled: 35, [5 advert]p. Pale green wrap, title & orn in blue on cover. 19 x 12.3 cm(7 1/2 x 4 7/8 in). Cut. JSL.

Cont: 1/2tp; other bks of author; tp; publ data; tab cont; 5 chs; advert.

Magical & occult gemology, treating first the history, then the connections between astrology and magical properties of gemstones, and considering mountings for gemstones, which acknowledges the supposed connection between "compatible" metals and the stones set in them, sources of powers in gemstones, and practical applications. The interesting advertisements offer talismans, amulets, lucky stones, magical & occult perfumes, also smoking additives, and a number of books dealing with curious lore. Paper badly browned, brittle; probably very few copies survive.

2606. GUHLMANN, WALTER & BROCKMÖLLER, WOLF BALT

Die | Magie der Edelsteine | Okkulte Bedeutung der Edlesteine | Ein Handweiser bei der Wahl der | günstigen und glückbringenden | Schmuckstücke | von | W.Guhlmann | [star] | Neue Auflage | ergänzt und bearbeitet von | Wolf Balt Brockmöller | [star] | Nachdruck verboten | Uranus=Verlag, Max Duphorn, Hamburg 13 [nd]

Centerstapled: 24, [8 advert]p. Orange-tan wrap, cover title. 18 x 12.4 cm(7 1/8 x 4 7/8 in). Cut. JSL.

Cont: tp; publ data; text; advert.

While called a "new edition," there is no statement directly linking this work to the foregoing. Paper of much better quality. Contains brief historical treatment, Choice of stones according to zodiacal period, powers of gemstones, and becoming, in effect, an alphabetical glossary from Achate to Zirkon, and also including the material on metal settings.

2607. GUHR, ANDREAS (1950-) & NAGLER, JÖRG(1950-)

Andreas Guhr/Jörg Nagler | Mythos | Der | Steine | Ellert & Richter Verlag [Stuttgart, 1986]

Cementb: 118p; 24 col photos on 12 glossy f, all counted in pag except last f which is also last text leaf; 11 b&w ill; 2 b&w doublep ill. Plasticized black paper over bds, col photo & white lett front cover; white lett spine & back cover.Black endp. 21 .4 x 14.9 cm(8 3/8 x 5 1/8 in). Cut. DM 19.80. ISBN 3-922294-99-5. JSL.

Cont: 1/2tp; biblio & publ data, etc; tab cont; 7 chs; col leaf.

The authors trace the lore of stones throughout history, providing at the beginning a good general introduction from the Stone Age into modern periods and including remarks on the uses of stones and associated curious lore in Egypt, Near East, Israel, Greece, Rome, and during the Christian eras. There are short chapters concerning relationships between stones and the signs of the zodiac, amulets, talismans, therapy with gemstones, and also a brief discussion of the origin of the earth and the science of mineralogy, this last being by way of an introductory to the largest part of the book, p 83-118, which describes the individual stones, their properties, occurrences, and uses in the magical and healing arts. This last part, while treating all of the classical species and varieties, also includes some that are so modern, like labradorite and tigereye, that any lore attached to them must be modern invention. The color photographs are uniformly excellent.

2608. GUIDI, or GUIDIUS, GIOVANNI or JOANNES

De | Mineralibvs | Tractatus in Genere | Ioannis Gvidii Senioris | Patritij Volaterrani I.C. aetate sua celeberrimi, | Libri Quatuor; |... [list of topics in double column, separated by vertical red rule and with orn red brackets to each book]... | Opus diù desideratum, à praeclarissimis I.C. summis laudibus insignitum, nunc | candem temporis prima vice praelo diligenter submissum, & in lucem editum. | Cum duobus Indicibus, e unus Titulorum, alter Rerum notabilium. | Svperiorvm Permissv, Et Privilegio. | [woodcut vignette] | Venetiis, M DC XX V. | [red rule] | Apud Thomam Ballionum. [Venice, 1625; title in red & black]

4°: [40], 208, [2 blank]p; dagger^4, a-b^8, A-M^8, N^4. 21.8 x 18.2 cm (8 5/8 x 6 3/8 in). Ch orns, inits. Agassiz III, 149. De Golyer Coll, U Okla; JSL.

Cont: tp; dedic; pref; tab cont; index; essay; text in 4 bks; blank f.

Commenting upon this early mineralogy, Thorndike, *History of Magic*, 7, 252, states "That mineralogy had made little advance during the previous hundred years might be inferred from the fact that Giovanni Guidi of Volterra in 1625 dedicated to Ferdinand II, grandduke of Tuscany, and published at Venice a treatise *De Mineralibus* by one of his ancestors who lived from 1464 to 1530, and that there was another printing of this book in 1627. Such an inference, however, would not be quite justified, since Guidi was a jurisconsult and the volume is chiefly concerned with legal questions involving alchemists, gems, and so forth." The section on gems referred to by Thorndike appears on pages 64-73, and as in the other portions of the work, consists of a series of questions raised by Guidi and answered by quotations or statements taken from other authorities, among them Pliny, Isidore of Seville, the Bible, etc. The questions on gems are general and jump from topic to topic with little solid information divulged. Questions on pearls are included. More on gems appears in the section entitled "De Ornamentis," p 174-80.

2609. -----1627

...De mineralibus tractatus absolutissimus... Cum duobus indicibus, quorum unus titulorum, alter rerum notabilium. Francofurti, Apud Egenolnhum Emmelium, 1627. 292 p. From Ward & Carozzi, 980; not seen.

2610. GUIDI, G de Notizie geo-mineralogiche sul giacimento di alabastro della Valle del Marmalaio nei Monti della Castellina. *Atti Soc Toscana Sci Nat residente in Pisa, Mem*, 43, 1933, 104-41, fig, pls 1-3. Not seen.

2611. GUILHOU, E Catalogue of the superb collection of rings. From the Egypt of the Pharoahs to the France of

Napoleon I. Auction catalogue 768 items. Coloured frontispiece and 27 plates. London (Sothebys) 1937. Not seen: from a bookseller's catalog of 1956; the collection described in RICCI, S de, 1912.

2612. GUIMÃRES, DJALMA O diamante no Estado de Minas Geraes. *Serviço Geologico e Mineralogico do Brasil, Bol* 24, Rio de Janeiro, 1927, 5-46, 18 tip-in photo plates, 8 fig(map). JSL. General geology of Diamantina district, northern Minas Gerais; petrography, alluvial diamond deposits, detailed study of Lavra do Barro deposit, critical study of possible matrix rock of diamond. Biblio p 43-6, 42 entries.

2613. -----1934 ... A'margem de "Os sate'lites do diamante", por Djalma Guimães. Belo-Horizonte, Oficinas graficas da estadistica, 1934. x, 57, [3]p; pls Includ map, diagrs(1 fold)). 27 cm. (*Minas Geraes, Departamento dos servicos geografico e geologico. Servico geologico Monografia* 2). At head of title: Estado de Minas Geraes. Secretaria da agricultura. GS 34-182. Not seen. This paper supplements E.Hussak's posthumous note on the minerals associated with the alluvial diamonds of Brazil.

GUIMÃRES, D, see MORAES, L J, 1930

2614. Not used

2615. GULYAEV, N S & IVACHEV, P A Kolyvanskaya shlifovalnaya fabrika na Altae. Kratki istoricheskii ocherk, sostavlennyi k stoletyu fabriki (1810-1992 gg.). Barnaul, 1902, 70 p. Brief historical account of the famous Kolyvansk lapidary works in the Altay Mountains of Siberia, compiled for its 100th anniversary. Not seen.

GÜMBEL, CARL WILHELM von (1823-1898)

Ger geol, mining eng; stud München, Heidelberg; career in mining admin Bavaria; evntually Dir State of Bavaria Mining Bur.

2616. -----1880 Über die mit einer Flüssigkeit erfüllten Chalcedonmandeln (Enhydros) von Uruguay. *Sitzungsber Kgl-Bayer Akad Wiss zu München, Math-Phys Cl*, 1880, p 241-54; Nachträge zu den Mittheilungen über die Wassersteine (Enhydros) von Uruguay und über einige süd- und mittelamerikanische sogen. Andesite. Ibid, 1881, 321-68. Describes the hollow gas and/or liquid-filled agate geodes found ca 150 km N of Salto, Uruguay; minute quantities of dissolved salts found in the water-fillings. Very early scientific study of enhydros. Not seen.

GUMP, ABRAHAM LIVINGSTON(1869-1947) & TAYLOR, FRANK

Gump founded the famous and still active shop of the same name in San Francisco that specializes in oriental antiquities, including jades; see WILSON, CAROL GREEN for biogr.

2617. -----1938(?)

Jade Hunt | By | A.Livingston Gump | As Told To | Frank J.Taylor | [orn] | H.S.Crocker Company, Inc. Publishers · San Francisco [nd]

P[2]: "Jade Hunt"... first appeared in the *Saturday Evening Post* of June 12, 1937," [vol 209, p 17, 71-4, fig].

Centerstapled: [20]p; 10 photos. Pale greenish-blue wrap, white title in frame on cover. 22.8 x 16.5 cm(9 x 6 1/2 in). Cut. JSL.

Anecdotes from Gump's adventurous career as a collector and seller of oriental antiquities with a special interest in Chinese jades. Comment Born, 1982, 141-2. Reissued post 1937: text same but several photos exchanged for others; white wrap, pale green shaded vertical band on cover with drawing of a jade carving & black lett. 23 x 16.8 cm(9 x 6 5/8 in). Cut.JSL.

GUMP, RICHARD

Son of A L G; entered family business at age 24; gen mgr 1944; pres 1947; author & lecturer.

2618. -----1962

Jade: | Stone Of Heaven | [yü symbol] | By Richard Gump | Doubleday & Company, Inc. | Garden City, New York [1962]

Cementb: 256 p; 189 fig(18 col, 1 doublep map). Tan cloth, archaic jade plaque in brown on cover with title in blue & brown; blue & brown lett spine. Col dj, photos on covers, resume, vita. 23.3 x 15.3 cm(9 1/4 x 6 in). Cut. $7.95. LC 62-12100. JSL.

Cont: 1/2tp; tp; publ data; dedic & quote; dynasties chart; tab cont; col ill list; map; 10 chs; biblio(254-5, 31 entries); Amer museums with notable jade collections; ackn.

Informative, entertaining account on jade and jade carvings from all over the world, told in an effortless style by the then owner of Gump's of San Francisco. The text treats jade history, sources, Chinese symbolism in jade, objects carved from jade and their significance, typical Chinese dynastic jades, jadeite and its sources, properties, treatment, etc, jade in recent years, and advice on purchasing jades. The illustrations are adequate but would have been sharper If they had been printed on glossy paper instead of the text paper. An excellent treatment of considerable value to the beginner. Rev *G & G*, 11, 1963, 28; *J Gemm*, 9, 1963, 141-3;see comment Born, 1982, 142-3.

2619. GUNARATNE, H S

Ceylon | National | Museums | Handbook | Series | 1 | Rocks And Minerals | Of Ceylon | By | H.S.Gunaratne, F.G.A. | Curator in Geology | Colombo National Museum | Published By | The Department Of National Museums | Ceylon | 1967

Edgestapled: [1 blank]f + [11], 58 p + [2]f(plates); 3 sketch maps on 3 f bound-in but not includ in pag; 10 photos on 2 f(Pls I-III) bound-in at end of text; the final f bears a map of Ceylon which is crossed-out in ink and labeled "Printer's Error." White pebbled paper wrap, title in black & red on cover in ruled frame. 21.6 x 13.7 cm(8 1/2 x 5 3/8 in). Cut. JSL.

Cont: blank f; tp; publ data; editor; fwd; pref; text tp; part tp; 4 chs; part 2 tp; text; pls.

First part: rocks & minerals of Ceylon, remarks on basic geology, rocks & their distribution, minerals(briefly described, sources); in Ch 4, p 43-52 are descriptions of the gemstones. Part II is the catalog of the mineral collection in the Colombo Museum.

2620. GÜNTHER, BIRGIT

Bestimmungstabellen | für Edelsteine, synthetische Steine, Imitationen | Bearbeitet von | Birgit Günther | Deutsches Gemmologisches Ausbildungszentrum | (Deutsches Berufsfortbildungswerk für Edelsteinkunde) | Idar-Oberstein | 1. Auflage 1981 | [logo] | Verlagsbuchhandlung Elizabeth Lenzen · Kirschweiler

8°: 168, [8 advert]p; many col spectrum strips in main tab. Bright blue-green plasticized paper over bds; white lett, fig, & equivalent Engl title on cover; white spine title. 23 x 16.9 cm(9 x 6 5/8 in). Cut. ISBN 3-9800292-1-2. DM 80. JSL. Price raised to DM 98.

Cont: 1/2tp; tp; publ data; tab cont; pref; biblio(p 8, 12 entries); abbrev; how to use tabs; finding tab; main tab; indexes; adverts.

Elaborate identification tables for gemstones, with all information, including preliminaries but not title, given in German & English. The finding table lists gemstones by increasing refractive index with page numbers for main table entries: name of the stone, double-refraction, optical character, density, but the main table, far more elaborate, uses the same system of arrangement but with added data on properties and composition, crystal system, and spectral absorptions, if appropriate, and with colored strips of same. Data are the latest available and taken from recent issues of the several major gemological journals of Germany, England, and the United States. There are very few errors or places subject to misinterpretation; a few terms in the tables do not appear in the indexes. Rev *J Gemm*, 18, 1, 1982, 83.

2621. GUNTHER, GARY & GUNTHER, JANICE
Favorite field trips. Publ by Tepee Rock Shop, Saugus, California, 1966. Not seen.

2622. -----1968, 2nd edit

Favorite Field Trips | A Collection Of One-Day Field Trips | For Los Angeles Gem Hunters | Mapped & Edited By | Gary and Janice Gunther | For | Tepee Rock Shop | 9750 Soledad Canyon Road | Saugus, California 91350 | (805) 947-3780 | [dot] | $1.95 | Second Edition | Copyright 1966, 1968 | By Gary L.Gunther | Published by | Tepee Rock Shop

Centerstapled: [22]f; 28 sketch maps. Bright green print wrap, dec. 27.3 x 21.2 cm(10 3/4 x 8 3/8 in). Cut. JSL.

Three key maps show sites west, north, and northeast of Los Angeles; individual maps & directions, instructions, and what to look for(silicified fossils, wood, quartzes, calcite onyx, rhodonite, nephrite).

GUNTHER, O, see EPIPHANIUS, 1895, 1898

2623. GUPTA, C S Lapidary work of Jaipur. *Survey of Selected Crafts, Census of India 1961*, vol 9, Madras, part 7-8(v), 1964, p 1-23. Not seen.

2624. GURE, DESMOND Some unusual early jades and their dating. *Trans Orient Ceramic Soc*, London, 33, 1960-62, 41-59, ill. Not seen: from Born, 147-8, with extended commentary; Yang 1445.

2625. -----1964 Selected examples from the jade exhibition at Stockholm, 1963; a comparative study by Desmond Gure. "Reprinted from *The Museum of Far Eastern Antiquities* [Stockholm],Bulletin No.36, 1964, 117-158, Plates 1-34." 8°, pls [18] glossy f, the last blank, bound-in. Red, thick paper print wrap. 26.4 x 19 cm(10 3/8 x 7 1/2 in). Cut. JSL.

Outgrowth of a lecture by Gure given in connection with opening of the exhibition(see GYLLENSVÄRD, 1963, for catalog). The introduction explains stylistic clues used to date jades; text describes objects. Photographs, one to six per plate, are fair to good quality, several are poor. Commentary by Born, 146-7; Yang 1446.

GÜRICH, GEORG JULIUS ERNST(1859-1933)

Ger geol, paleont; PhD Breslau U where later mbr faculty; many expedits to Sudan, S W Africa, etc; held important govt posts. NDB 7, 281; Pogg 4, 547.

2626. -----1894(?)

Das | Mineralreich | Von | Dr.Georg Gürich, | Privatdozent an der Universität zu Breslau. | [rule] | 521 Abbildungen im Text. 8 Tafeln und Beilagen in Schwarz = und Farbendruck.| [orn rule] | Neudamm. | Verlag von J.Neumann. [nd, ca 1896; title in red & black, decorated; facing title similarly decorated; "Hausschatz des Wissens, Abteilung IV(Band 6)"]

8°: stapled sections: [2 blank], [6], 754, [2 blank], [8 advert, in red & black!]p; 521 fig; 8 pls(1 tinted, 4 col) tip-ins. Brown, ornately dec cloth, gilt lett & rules. Pale brown floral endp; ae marbled. 23.4 x 15.5 cm(3 1/4 x 6 1/8 in). Cut. 7 Mk 50 Pf = 4 Gulden 50 Kreuzer(Austria) = 10 Fr.

Cont: blank f; ser 1/2tp; ser tp; tp; publ data; tab cont; introd; text; names & subj index; blank f; adverts.

A popular and successful exposition of economic geology with related material on mining, quarrying, stone cutting and polishing, etc, and some biographical sketches of famous mineralogists and geologists scattered throughout the text. The first part treats mineralogy as a science and is followed by an extended discussion of gemstones, p 148-298, which provides an excellent survey of the subject in all its aspects, and is based on the works of Schrauff, Doelter, Groth, and Bauer. This section is richly illustrated with text figures but also with one colored lithographic plate of cut and rough gemstones, a doublepage tinted view of a Kimberley diamond mine, a black-and-white plate of famous diamonds, and a folding table of gemstone properties. Other sections of the work treat other classes of economic minerals and in them is found another colored lithographic plate of minerals and ores and a folding map of the town of Freiberg, Saxony. Despite the very large section on gemstones, this work is almost always omitted from gemological reference lists. It was issued in at least four different bindings that I have seen, with slight variations in front matter, cloth, paper, etc. The last I saw was in an elaborately-stamped Art Nouveau binding in gray-blue cloth, and with greenish floral endpapers.

2627. -----1901 Edelopal und Opal-Pseudomorphosen von White Cliffs, (Australien). *N Jb Min*, Stuttgart, Beilage-Bd 14, 1901, 472-83, text fig. JSL. Important paper describing the unique precious opal pseudomorphs after fossils; describes type deposits, matrix rock, pseudos after wood, Devonian coral stems and brachiopods, Jurassic bivalves, a snail, belemnites, and saurian bones, also "fist-size" precious opal replacements of radiate groups of crystals which Gürich believes to have been a monoclinic species, possibly gaylussite although others have suggested gypsum.

2628. -----1901 Jura- und Devon-Fossilien von White Cliffs, (Australien). Ibid, 484-518, 2 fig, Pls 18(in part) & 19. More descriptions of Jurassic and Devonian fossils replaced by precious opal: mollusks, belemnites, plesiosaur bones, araucarioxylon wood, etc. Pls are drawings of fossils.

2629. -----1901 Ueber eine neue Lichas-Art aus dem Devon von Neu-Süd-Wales und über die Gattung Lichas überhaupt. Ibid, 519-39, Pls 18 (in part) & 20. On a trilobite replaced by precious opal at White Cliffs, New South Wales, and on the family *Lichas* in general.

2630. GURLITT, JOHANN GOTTFRIED(1754-1827)

Ueber | die Gemmenkunde | [taper rule] | Zur | Ankündigung einer Schulfeierlichkeit | im | Kloster Bergen | am 29 März um 2 Uhr und am 30 März um halb 2 Uhr | von | J.Gurlitt | Professor und Director der Schule zu Kloster Bergen. | [taper rule] | Magdeburg, bei Georg Christian Keil. 1798.

4°: [1], [1 blank], 50 p; pi, A-E^4, F^3, G^2. 21.5 x 18 cm(8 1/2 x 7 in). Uncut. USGS Kunz Coll, GS 34-919; Zazoffs, *Gemmensammler*, 184.

Cont: tp; text to p 46, thereafter notes on school administrative matters.

Brief but comprehensive explanation of the art of gem engraving and its practicioners and their products from antiquity into modern times. There are remarks on technique of engraving, subjects, making impressions, etc.

2631. GURUDAS

Gem Elixirs And Vibrational | Healing, Vol. 1 | By Gurudas | Channeled Through | Kevin Ryerson | Cassandra Press | Boulder, CO. 80306 [1985]

Cementb: [3], [1 blank]p + p i-iv, 1-296; several text sketches. Col wrap, with col ill of minerals; back cover resume; spine title. 25.4 x 17.7 cm(10 x 7 in). Cut. $11.95. ISBN 0-961-58750-4. JSL.

Cont: tp; publ data; tab cont; pref; introd; text; cross-ref tabs; lists; appends; gloss; biblio(p 275-92, ca 600 bks & arts); index.

Messages from the past as received by Kevin Ryerson, a "professional psychic," on gemstones and minerals and how these may be used in all kinds of protective medicines and wards. The text is verbose, convoluted, and liberally studded with references, many of which, at least those concerning gems and minerals, either have nothing to do with matters at hand, or refer to arcane properties thought to reside in them. Once the properties and influences of the large number of mineral and gem materials have been explained, instructions are given on how to prepare elixirs from these materials. The latter are described in the second chapter and here are found everything from abalone to zoisite, p 73-169, and including some remarkable substances as asphalt, atacamite(!), peat bog, and the mysterious "boji" stone, also metals & alloys, "scarab," and other equally curious items.

2632. -----1986, vol 2

Gem Elixirs And Vibrational | Healing, Vol. II | By Gurudas | Channeled Through | Kevin Ryerson And John Fox | Cassandra Press | Boulder, CO.80396

Cementb: [3], iv, [1], 210, [6 blank]p; 3 ill. White & col wrap. 25.5 x 17.5 cm(10 x 6 7/8 in). Cut. $9.95. ISBN 0-961-58751-2.

Cont: tp; publ data; tab cont; pref; introd; 11 chs; append; gloss; biblio(p 197-205, ca 300 entries); index; 3 blank f.

Provides additional information on the use of quartz crystals, which in 1987 were enormously faddish, talismans, astrological & gem elixirs, bath therapies, gemstones and their influences in the environment, and more of the same nearly incomprehensible statements that characterize the first volume.

2633. GÜTERBOCK, HANS GUSTAV Siegel aus Bogazköy. I.Die Königssiegel der Grabungen bis 1938. Berlin, 1940, viii, 82 p, 6 pls, figs, tab. Bds. 29.5 x 23.5 cm. Not seen; from Thomas Heneage Cat 8, London, 327, 1985.

2634. GÜTHE, J M

Ueber | den Astrios-Edelstein | des | Cajus Plinius Secundus. | [taper rule] | Eine | antiquarisch-lithognostische Abhandlung | von | J.M.Güthe, | k.b. Medicinal-Rath und Akademiker. | [rule] | Vorgelesen | in | der königlich-baierischen Akademie der Wissenschaften | zweyten Klasse den 20sten März und 13ten May 1809. | [taper rule] | Beylage | den Denkschriften der königlich-baierischen Akademie der Wissen- | schaften für. das Jahr 1809. | [orn rule] | München, | auf Kosten der k.Akademie 1810.

4°: 76 p; engrav pl, hand-col, bound-in at end. 22.2 x 18.2 cm(8 3/4 x 7 1/8 in). Cropped. USGS Kunz Coll, CS 34-678; JSL.

Cont: tp; 6 chs; tab cont; explan of pl; errata; pl.

An elaborate and detailed study of the "astrios" or star-stone of Pliny's *Natural History* in which Güthe assembled all the evidence he could marshal to "prove" that it was star sapphire. This appears to be the first extended study of the star sapphire. The first chapter quotes Pliny's description, then notes remarks on star stones by Isidorus and later writers, and the diversity of views on their real nature, and incidentally provides a useful review of all the important gemological literature from Pliny onward. The second chapter distinguishes Pliny's "astrios" from others with which it may be confused, namely, paederos, iris, asteria, astroites, astrobolus, and ceraunia. A reference is made to G Lehmann's study of Pliny's "asteria", which see elsewhere, and Samuel Hentschel's similar study, which, however, concluded that the stone was a fossil. In the third chapter, more distinctions are made between the subject stone and other candidates as precious opal, moonstone, cat's-eye, and girasol. Chapter 4, a most useful one, mineralogically describes star sapphires and gives localities, nomenclatures, and remarks upon specimens held in various collections. The next chapter investigates the causes of the light streaks and again examines the views of other authorities, including some that are far off the mark, but others that correctly ascribe the cause to inclusions. The last chapter finally summarizes the evidence and compares the modern stone with Pliny's "astrios" and concludes that they are one and the same. The plate rather crudely depicts a series of star sapphires turned to various orientations. This is a rare, little-known work that is remarkable and valuable because of its careful journey through all the literature that could bear on the problem of star stones.

GUTHRIE, M, see SWEET, J M

GUYTON DE MORVEAU, LOUIS-BERNARD, Baron(1737-1816)

Fr chemist; b Dijon; initially stud law, but later turned to study of chem; faculty Dijon U; co-founder École Polytechnique, Paris; with Lavoisier, et al, brought reforms to chemical nomenclature; made first scient studies of steel. *Biogr Univ*, 19, 262-65.

2635. -----1797 Mémoire sur l'hyacinthe de France, congénère à celle de Ceylan, et sur la nouvelle terre simple qui entre dans sa

composition. *Ann de Chimie*, Paris, 21, 1797, 72-95; also "Extrait d'un mémoire du Cit.Vauquelin, contenant l'analyse comparative des Hyacinthes de Ceylan et d'Expailly... ibid, 22, 1797, 179-210. Not seen. Experiments on zircon from Expailly, France, confirm the presence of zirconia as previously reported by Klaproth (see WEEKS, M E, *Discovery of the Elements*, 6th edit, 1956, 543-5).

2636. GYLLENSVÄRD, BO, Editor

Celadon · Jade | Finds · Specimen · Scientific Results | Exhibition arranged by | The Museum Of Far Eastern Antiquities And | AB Gustavsbergs Fabriker | at The National Museum · Stockholm May-June 1963 [facing title:]

Celadon · Jade | Fynd · Föremål · Forskningsresultat | Utställning arrangerad av | Östasiatiska Museet Och AB Gustavsbergs Fabriker | på Nationalmuseum · Stockholm Maj-Juni 1963

"Utstallningskommissarie: Bo Gyllensvärd" Back wrap: "Almqvist & Wiksell/ Gebers Forlag Ab Stockholm · Göteborg · Uppsala."

4°: 55, [1 blank]p; sketch map, 7 photos, 4 pls(3 col) tip-ons. Heavy white wrap, "yu" symbol in red with black lett on cover; red band, Chinese characters in white & black lett, advert, on back cover. 20.8 x 19 cm(8 1/4 x 7 1/2 in). Cut. JSL; Yang 1174; Born, 248.

Cont: cat no; Swed tp; Engl tp; committee; lender list; map; pref; celadon; jade; cat of celadon; cat of jade; hist of porcelain; blank p.

Items included 25 celadon pieces and 178 jades, plus a few other examples of carvings in stone and 2 bronzes. The final article in the text reports results of a mineralogical-chemical investigation of the "first porcellaneous ware in China" by Nils Sundius.

2637. HAARDT, H Les pierres précieuses. Caractères minéralogiques. Applications pratique des rayons X à l'industrie de la joaillerie. Montdidier, 1908, 50 p 61 fig. Not seen. Also, same, a reprint?, Paris, 50 p, 35 fig. Not seen.

HABDARRAHMAN (1445-1505)

Egyptian scientist; b Siout, Egypt; fl during occupation by Ottoman Empire; he was famed for prodiguous output in many fields of works of uniform excellence, but the below example appears to be the only substantial work to be translated; there are many variations of name, eg, Habdarrahmani Asiatensis, Asiiatensis Aegyptus, Habdolrachmano, Durrhamani, Abdharhaman, Abd Al-Rahman, Ibn Abu Bakr, Abu Al-Fadl Abd Al-Rahman b, Abi Abi Bakr b, Muhammad Galal Al-Din, as in A Mieli, *La Science Arabe*, Leiden, 1838, also Soyouthi, Siouti(*Biogr Univ*, 43, 222-7), Sayuti and Al-Sayuti(in Mieli). Abraham Echellensis, or Ecchellensis(d 1664), was a native of Eckel, Syria, and learned prof Arabic and Syriac, writing mainly in Rome & Paris. *Biogr Univ*, 12, 457-8.

2638. -----1644 De proprietatibus et virtutibus medicis animalium, plantarum, ac gemmarum, tractatus triplex, interprete ex Arabico idomate, Abrah. Ecchellensi. Parmae [Parma, Italy], 1644, 4°. Approx title only. Not seen.

2639. -----1647, Paris, an 8° edit; not seen.

2640. -----1649, London edit; not seen.

Various writers state that this work contains a substantial portion devoted to the medicinal virtues of precious stones. *Biogr Univ*, 43, 227: "c'est un fatras comparable à celui que l'on connaît en Europe sous le titre de *Secrets du petit Albert*."

2641. HABIB COLLECTION SALE

= Jewels = | Making Part Of The Collection | ="Habib"= | Of Which The Sale Will | Take Place At The | Hotel Des Ventes | Rooms 7 & 8, Paris | Thursday 24 June 1909 | At 3 O'Clock Punctually | [rule] | Auctioneers | [2 columns, 4 lines each] | [rule] | Expert | M. Louis Ancoc, O. [star], 14, Place Vendome, Paris | [rule] | Catalogues may be obtained from any of | the above | [rule] | Private View: Tuesday 22 June from 2-6 o'clock | Public-: Wednesday 23- - - | [rulel } Entrance by the rue Grange-Batellère

Pale ivory printed wrap, overlapping the text; cover with vertical ellipse in which is printed "Joyaux Provenant De La Collection Habib Paris Juin 1909" and underneath "On View From Monday 7th, to Friday, 11th June Inclusive, at Messrs. Garrards' Galleries, 25, Haymarket, London, S.W." The ellipse is blind-stamped and the letterpress engraved and printed in reddish-brown ink. The pamphlet, containing loose plates, is fastened with a green silk, knotted cord passed through two left-margin holes. Collation: [2]f + [8] plate f of as many items, each f on stiff glossy stock with b&w photo of a gem against a panel of pale tan-yellow and with explanatory letterpress beneath, each pl with tissue + [2]f. 21.3 x 15.7 cm(8 3/8 x 6 1/8 in). Cut. Wrap: 22.5 x 16.7 cm(8 7/8 x 6 1/2 in). BM(NH); USGS Kunz Coll, GS 34-775.

Cont: tp; note; blank p; sales cond; pls; blank p; printer; blank f.

Important gemological-historical landmark because of sale of the Hope Diamond(Lot no 8), with a note stating that it was sold to Habib in 1908. Other large diamonds: rose gem of ca 6 cts; blue-white pendeloque of 24 cts; oval blue-white of 23 cts; "diamond of Princess Mathilde Bonaparte" of 16 cts; a brilliant shaped like the Nassak and weighing slightly over 70 cts, with the remark that it "presents a peculiarity... its colour, which varies according to the light from a rosy blue to a tint aqua-marina...", another pink stone of 31 1/2 cts, and as Item No 7, the "Mi Regent," a pendeloque of 58 cts which "owes its name to the striking fact that it is of a beauty and purity equal to that of the Regent of the French Crown." Item no 8 in the sale was the Hope Diamond which sold for Frs 400,000 according to a marginal note in the U.S.Geological Survey Library copy; this sale is discussed in S S Patch's *Blue Mystery, The Story of the Hope Diamond*, p 28, which see.

HABSBURG-LOTHRINCEN, G von, archduke & SOLODKOFF, G von

First author descendent of German royal house of Hapsburg-Lorraine; both authors employed in Christie's auction firm of Geneva where Dr von Habsburg is director and where both authors were in a strategic position to obtain access to records, photographs, accounts, etc from which much of the new material was drawn.

2642. -----1979

Fabergé | Court Jeweler to the Tsars | G. von Habsburg-Lothringen | A. Von Solodkoff | Rizzoli | New York [1979]

"English translation: J.A.Underwood... English edition published 1979 in the United States of America by: Rizzoli..."

Cementb: 171, [1]p; 56 col photos, ca 184 b&w photos on 52 glossy f includ in pag; 1 text fig. Purple, unfin cloth, gilt spine title. Blue dj, back cover white; flap resume, vitas, other

publ bks. 24.5 x 25.5 cm(9 5/8 x 10 in). Cut. Pale tan endp. LC 79-64335; ISBN 0-8478-0244-2. $35. JSL.

Cont: 1/2tp; tp; publ data; tab cont; fwd; pref; text; notes; gloss; cat of Easter Eggs(with photo pls); biblio(p 167, 42 entries); photo credits; index; print data.

This work provides a "full picture" of Fabergé's life... enriched with new material" which A K Snowman(preface) regards as most important because the authors found "so many relevant facts that have never before been published in a field which has already been diligently worked over by so many others before them." The text traces the family history, development and career of the firm, discusses elements of design styling, uses of materials, and other factors which set Fabergé work apart from others, describes the workshops and workers, materials and techniques (hardstones, p 78-95), Easter eggs, great collections, commerce and prices, hallmarks, fakes, and lastly, gives a glossary of technical terms, and importantly provides a systematic illustrated catalog of the celebrated Easter egg masterpieces. Handsome, authoritative work but marred by use of "perfection" binding.

HABSBURG-LOTHRINGEN, G, see FABERGÉ

2643. HACHMANN, R Bronzezeitliche Bernsteinschieber. *Bayerische Vorgeschichtsblätter*, Munchen, vol 22, 1957, 1-36. Not seen, from G R v Bock, p 175.

2644. HACZEWSKI, JÓZEF O bursztynie. *Sylwan*, vol 14, nr 1/2, 1838, 191-25; biblio, nr 3/4, 358-428. Not seen.

2645. HADAWAY, W S Opals. 8°: 14 p, wrap. Pear Tree Press, England, 1907. Not seen.

2646. HADDOW, J G

Amber | All About It | [vignette, Phaethon] | By | J.G.Haddow. | [vignette, the Heliades] | Liverpool: | At The Office Of "Cope's Tobacco Plant." | 1892. [title in red & black]

"Cope's Smoke Room Booklets Number Seven"

8°: [4], [8], 59, [5 advert]p; front wood engrav ill with tissue; other ills in adverts. Pale brownish-gray thick paper wrap, with water scene with goldfish gazing at a piece of amber bearing the title, the whole after the artist's rendition, in color, heightened by gold. Black lett on spine; the back cover, by same artist, shows a Scot in kilts, with a small dog sneezing after smelling snuff. Inner covers with adverts. The first two leaves are inserted with paper hinge, bound-in. The half title In red & black. 19.2 x 13 cm(7 1/2 x 5 1/8 in). JSL.

Cont: [2]f adverts, part col; 1/2tp; other ser booklets & publ data; front f; tp; 2 poems; pref; 6 chs; biblio 40 entries; append; adverts.

According to the preface, most of the material was compiled by William Maccall from translations of German literature on amber and to this was added "much new information" from "many fresh sources consulted in its compilation," presumably by Haddow. In regard to this work, G.C.Williamson, *Book of Amber*, 1932, states that he knew of only two serious works on amber in English, one being Buffum's *Tears of the Heliades*, 1898, and the other the present work, which he says "curiously enough, is the more important of the two"(p vii). In further remarks, he also explains how it came about that Maccall accumulated a large quantity of material on amber and published some of it in the house magazine *Cope's Tobacco Plant*, 1875-81, but death intervening, Haddow was requested to take over the task of organizing the material and placing it in suitable form for publication. Turning to the text, the first chapter describes the primeval "amber land," its extent in the Baltic region and in adjacent countries, and also giving localities where amber is found elsewhere, especially in Sicily. Here also are discussions on the origin of amber, tree source, and inclusions. Chapter 2 treats the antiquity of amber as well as recounting legends and lore. Chapter 3 is on ancient amber commerce and trade routes while the 4th chapter is a history of amber during the Middle Ages and into the recent past, with comparisons of views that were developing on the origin of amber. Chapter 5 treats the history and structure of the Prussian amber industry, its modus operandi, and with notes on the uses of amber and its classification. The final chapter provides allusions to amber in English literature with numerous quotations therefrom. The appendix summarizes Pliny's comments on amber in his *Natural History*. A very scarce work, verging on rare, even Williamson in 1932 complaining about the difficulty of obtaining a copy.

2647. HADLEY, JARVIS B Preliminary report on the corundum deposits in the Buck Creek peidotite, Clay County, North Carolina. *US Geol Survey Bull* 948-E, 1949. Centerstapled: IV + p 103-28 + ix p; Pls 45-8; Fig 14-16; Tabs 3-5. Wrap. Pls in back cover envelope. $.60. JSL. Previous work, rock units, structure, deposits, mine workings, estimated reserves, etc. Mentions that some material was of gem quality.

2648. HAENSEL, A Die Perlmutterindustrie zu Adorf im sächsischen Vogtlande. Eine Studie ueber die Muschelware fabrikation im Bezirke der Königl. Gewerbe- inspektion Plauen. PhD diss Technische Hochschule Dresden, 1914, IX, 112 p. Not seen.

2649. HAGAR, DEWITTE

A Few Simple | Instructions | For | cutting | And | Polishing | Cabochons | With Description Of | Necessary Equipment | [orn rule] | By | DeWitte Hagar | Past President | Los Angeles Lapidary Society [cover title only, in ruled frame; inside wrap: "Printed for Western Lapidary Supply Co. 117 - 23rd Street, Manhattan Beach, California, October 1946"]

Centerstapled: 15 p(includes front wrap). 21.6 x 10.2 cm(8 1/2 x 4 in). Cut. JSL.

2650. -----1957

DeWitte Hagar's Handbook of | Rocks and Gems | 75c | [col photo] | How To: Find - Identify - Cut And Polish Rcoks | And Gems. All Nationwide Locations [On cover: "Trend Book 164;" inside cover "U.S.Copyright 1957 By Trend Books... Los Angeles 28, Calfornia."]

Edgestapled: 128 p; 94 photos. Col wrap, photos & lett al] sides. 23.8 x 16.6 cm(9 3/8 x 6 1/2 in). Cut. $.75.

Popular, inspirational rather than based on substance, and covering too many topics to be thorough.

2651. -----1960

Complete Guidebook To | Rocks | And | Gems | How To Find, Identify, Polish | [col photos] | Jewelry Making Tips By DeWitte Hagar [cover title only; "Trend Book 200 75c"]

Edgestapled: 128 p; 154 photos; 5 sketch maps; photos on inside wraps. Col wrap. 24.1 x 16.6 cm(9 1/2 x 6 1/2 in). Cut. JSL.

Expanded, much revised; there are sections on hardness, descriptions of lapidary materials, Herkimer "diamonds," scenic stones, lapidary work, jewelry work, localities lists. By no means "complete."

HAGEN, KARL HEINRICH

2652A. -----1821 Bemerkungen, die Entstehung des Bernsteins betreffend. *Beiträge zur Kunde Preussens*, Königsberg, 4, 1821, 207-27. Not seen; from Scudder, *Fossil Insects*, p 65, who notes that Hagen "argues, p 209, from the nature of the insects entombed in it, that amber is the gum of a tree." Also ref by G R v Bock, p 171.

2652B. -----1824 Geschichte der verwaltung des Börnsteins in Preussen. Ibid, 6, 1824, 1-41, 177-99. Not seen.

2652C. -----1824 Geschichte des Börnsteingräbereien in Ostpreussen und besonders der auf bergmännische Art veranstalteten. Nebst einem Grund- und Saiger- Riss der Börnstein-Graberei in Gr.Hubnicken. Ibid, 200-227.

2652D. -----1824 Über die Strandreviere und Gewinnung des Börnsteins aus der See. Ibid, 289-317.

2652E. -----1824 Was ist von den Zeugnissen zu halten, nach welchen der Börnstein in weichzähen Zustande gefunden seyn soll? Ibid, 385-399.

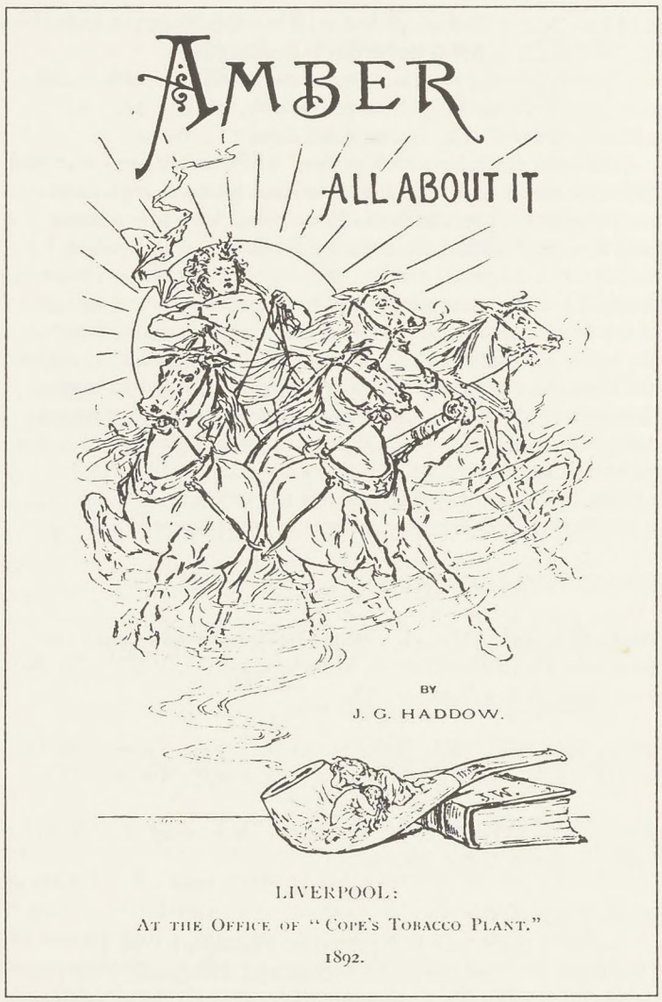
2652F. -----1824 Geschichte der im Jahre 1803 in Ostpreussen gefundenen grossen Bernsteinmassen. Ibid, 507-23.

2652G. -----1824 Über den Ertrag des Bernsteins. Ibid, 317-27.

2652H. -----1824 Über die verschiedenen Sorten des Bernsteins. Ibid, 377-84.

HAGNER, A F, see BOYLE, R, 1972

2653. HAGUE, F Ueber die natürliche und künstliche Bildung der Perlen in China. Von F.Hague, britischen Consul zu Ningpo. "Aus der *Zeitschrift f. wissensch. Zoologie v. C. Th. v. Siebold u. Kölliker*, VIII Bd.4. Hft.1857." First p footnote: "... aus den *Journal of the Royal Asiatic Society of Great Britain and Ireland*, Vol. XVI, London 1856, pag.280," signed C.Th. v.Siebold, transl. 8°: 10 p, 2 excellent pls(XIX, XX) in dk brown tint showing half-pearls on one and Buddhas on the other. The remarks are of great interest and importance because they show that the Chinese were already familiar with the methods of producing blister pearls by inserting small, stylized figurines of metal against the inner shell walls of freshwater nacreous mollusks to induce them to cover them over with nacre; the "Buddha" plate was subsequently frequently reproduced in pearl literature.



2646. Colored titlepage to Haddow's splendid account of amber in all its manifestations and uses; the illustration concerns the ancient legend of the Heliades whose tears turned to amber

HAHN, EMILY (Mrs Charles Ralph Boxer)

U S A writer, journalist; BS mining eng Wisc U 1926; grad work Columbia U 1928-9; Oxford U 1934-5; instruct in geol Hunter Coll 1929-30; travels to S Africa, Hong Kong where interned by Japanese WW-II but exchanged, released 1943. *N C Amer Biogr*, curr vol H, 173-4.

2654. -----1956 A reporter at large. Diamond. I - The Rush. *The New Yorker*, New York, 32, 7, Apr 7, 1956, 57-91, *all pages passim*; II - The giants, 8, Apr 14, 80-109; III - The Premier, 10, Apr 28, 116-32; IV - Old digger, old fool, 13, May 19, 108-24; V - The shade of J.Ballantyne Hannay, 14, May 26, 94-108; VI - Sights and cutters, 31, Sept 22, 99-124; VII - The Oppenheimers, 32, Sept 29, 39-85. A series of articles, annoyingly interrupted by advertisements, on the history of the diamond and the diamond mining and cutting industries, and extracted from Hahn's manuscript for the fuller, book version described below.

2655. -----1956

Emily Hahn | Diamond | The Spectacular Story Of Earth's Rarest | Treasure And Man's Greatest Greed | Doubleday & Company, Inc. | Garden City, New York, 1956

Cementb in doubled sheets: [2 blank], 314, [4 blank]p. Brownish-red cloth, black lett & arrows with silver lett on spine; sepia outline map endp. Col dj, scene of early digging & brilliant on cover; resume, vita author photo. 20.8 x 14.2 cm(8 1/4 x 5 1/2 in). Cut. Fe untrimmed. Te stained red. $3.95. LC 56-9394. JSL.

Cont: blank f; 1/2tp; other Hahn bks; tp; publ data; tab cont; text tp; 9 chs; biblio(p 205-6, 27 entries); index; 2 blank f.

"Most of the material... originally appeared in *The New Yorker*, some of it in different form." While best known for her fiction, Emily Hahn's technical/scientific background insures that the information in this excellent, authoritative work is not only chosen for its importance, but is logically presented, and interestingly told. The text treats the early history of diamond in South Africa, discoveries, and subsequent development of the mining industry, the growth of the De Beers organization, famous persons connected with diamond mining, modern methods, processing of ore, recovery, in diamonds, diamond cutting, synthesis, and prospecting, among other topics. Hahn states that much of the book is based on travels "between twenty- and twenty-five thousand miles gathering material"(dj). *The Gemm*, 26, 308, 1957, 42-3, "heartily recommended." Reprinted twice that I know of in 1957, one with te plain, another te stained red.

2656. -----1956, London edit

Diamond | [double-rule underline] | Emily Hahn | Weidenfeld And Nicolson | 7 Cork Street London Wl [1956]

8°: 262, [2 blank]p. Blue, cloth-type paper over bds, gold lett & rules on spine. Col dj(showing alluvial mining); resume: author photo omitted. 21.6 x 13.7 cm(8 1/2 x 5 3/8 in). Cut. 18s. JSL.

Cont: 1/2tp; tp; publ data; tab cont; ackn; 9 chs; biblio; blank f.

Completely reset, minor spelling revisions to conform to British usage.

2657. -----1957, Düsseldorf Diamanten. Ursprung, Macht und Zauber der begehrten Steine. Düsseldorf: Econ-Verlag, 1957. 257 p, 27 ill on pls. Cloth. Not seen.

2658. HAHN, MAX

Edelsteinkunde | - leicht gemacht | Ein Wegweiser durch die Welt | der edelsteine und Schmucksteine | von Max Hahn | Herausgeber: Werbestelle für Edelsteine | bei der Industrie= und Handelskammer Koblenz | Aussenstelle Idar=Oberstein | [rule] | Druck: Buchdruckerei G.A.Behnert, Idar=Oberstein | Zeichnungen: Werner Lautz [nd, ca 195-?]

Cementb, folded sheets: 32 p; 2 fullp sketches. Tan, thick paper wrap, woman's head on cover with lett in brown. 20.6 x 13.8 cm(8 1/8 x 5 1/2 in). Cut. First edit, 1-3 thousand. JSL.

Elementary, simply-written account of gemstones, nature, properties, cutting, descriptions, curious lore, and precious metals in which set. The author then a gem merchant in Idar-Oberstein.

2659. -----195-?, 2nd edit

Edelsteinkunde |...|Druck: G.A.Behnert, Idar=Oberstein 2 [nd]

Cementb: 35, [1 blank]p; 5 glossy photo pls. White wrap, col drawing of cut gems on cover with title; sketch of agate mill back cover. 20.6 x 13.9 cm(8 1/8 x 5 1/2 In). Cut. *Pers comm*: this is 2nd edit, 3-6 thousand. JSL. The third and fourth editions, also undated, not seen.

2660. -----1965(?), 5th edit

Edelsteinkunde |...| Aussenstelle Idar-Oberstein | 5. Auflage (16.- 24. Tausend) | [rule] | Druck: Ernst Kessler, Idar-Oberstein [nd]

Cementb: [1], [1 blank], 38 p; 1 glossy col pl; 10 photos on 4 glossy f; fold sketch map. White wrap, 16 col gem panels on cover, title in black; agate mill sketch back cover. 20.8 x 14.7 cm(8 1/4 x 5 3/4 in). Cut. JSL.

Revised & reset; color plates by Walter Wild of Idar-Oberstein.

2661. -----1966(?), 6th edit

Edelsteinkunde |...| 6. Auflage (25.-32.Tausend) |...

Cementb: [1], [1 blank], 41, [1 blank]p; 2 glossy col pls, the new pl with printed tissue facing p 15; 10 photos on 4 glossy f; text fig of cutting styles; fold map. Same wrap; same p size. JSL.

Minor revisions; new plate by Walter Wild.

2662. -----1965(?), Dutch edit. Not seen

2663. -----1966, 2nd Dutch edit

Edelsteenkunde | in een notedop | Tweede druk | Een wegwijzer door de wereld, der edel- en sierstenen | door Max Hahn | Uitgave: Federatie Goud en Zilver | Van de Spiegelstraat 3, 's-Gravenhage [1966]

Centerstapled: 48 p; 1 col ill; 11 text photos; doublep sketch map. White wrap, 16 cut gems on cover, black title. 24 x 15.8 cm(9 1/2 x 6 1/4 in). Cut. JSL.

Cont: cover explan; blank p; tp; fwd; col ill; blank p; text.

Minor changes, esp in last part on precious metals; absence of second color pl suggests translated from German 5th.

HAHN, MAX, see SCHONDORFF, E

HAHN, PAUL DANIEL (1849-)

Ger chem, metallurg; PhD U Halle 1874; from 1876 prof chem & metall in S African Coll in Cape Town. Pogg 4, 567.

2664. -----1874

Die | Phosphorescenz | Der Mineralien. | [rule] | Dissertatio Inauguralis Physico-Mineralogica | Quam | Consensu Et Auctoritate | Amplissimi Philosophorum Ordinari | In Academia Fridericiana Halensi | Cum Vitenbergensi Consociata | Ad Summos In Philosophia Honores | Rite Capessendos | Die XXV. Mensis Februarii A. MDCCCLXXIV Hora XI | In Auditorio Maximo | Una Cum Sententis Controversis | Publice Defendet | Daniel Hahn | Africanus. | [rule] | Adversariorum Partes Susceperunt | Guilelmus Petzold, Cand.Rer.Nat. | Rudolfus Credner, Stud.Geol. | [orn rule] | Halis Saxonum. | Formis Gebauerio-Schwetschkianis. | 1874. [Halle: Gebauer-Schwetschki]

8°: vi, 37, [3]p; self-wrap. 21.2 x 14 cm(8 3/8 x 5 1/2 in). Cut. LC 7-176, dagger. Cont: tp; dedic; pref; text; vita; theses; printer.

Hahn investigated behavior of mineral substances that phosphoresce during heating, noting (a) such phosphorescence is not characteristic of minerals as a whole, (b) colors emitted during rising temperature occur in the same order as in the light spectrum, that is, from red to violet, (c) all minerals displaying such phosphorescence lose this property if overheated, but (d), such "lost" property may be restored by electrical currents providing the mineral was not chemically altered during heating. The first part of this doctoral dissertation gives an excellent survey of the history of phosphorescence in minerals and gemstones. Not discussed by E Newton Harvey, *A History of Luminescence*, but listed in bibliography.

2665. HAHNLOSER, HANS R. & BRUGGER-KOCH, SUSANNE

[rule] | Hans R.Hahnloser | Susanne Brugger-Koch | Corpus der Hartsteinschliffe | des 12.-15. Jahrhunderts | [logo] | Deutscher Verlag für Kunstwissenschaft · Berlin [1985]

8°: XVI, 278, [1], [1 blank]p + 32 col photos on 16 bound-in glossy f; 466 b&w photos on 233 bound-in glossy f + blank f; one object per col pl but one or more per b&w pl; 11 text fig, many multiple. Dk blue cloth, terra cotta & gold orn panel on cover, similar panel with title on spine. Red dj, col photos, resume. 27.4 x 21.1 cm(10 3/4 x 8 1/4 in). Cut. Text on ordinary paper. ISBN 3-87157-101-6. Ca US $195.00. JSL.

Cont: 1/2tp; tp; publ data; tab cont; 3 fwds; ackn; introd; text; catalog; biblio(p 257-62, ca 300 entries); indexes to text ill & col pls; geographical museum collections index;ackn of ill; introd to pls; pls; blank f.

This very large, detailed, and scholarly work is both an invaluable record of hard gemstones used in many types of ornamental objects during the twelfth to fifteenth centuries in Europe, and also a handsome, beautifully illustrated example of sound book manufacturing. By diligent research, the authors located the most important of these objects in many museums, private collections, church treasuries, etc, and thus were enabled to "unite in one work all such objects between New York and Leningrad"(dj flap). Over 500 objects are described and illustrated, including such diverse pieces as beakers, cups, and containers of every variety, reliquaries and crosses, table furniture, candelabra, and many other objects made wholly or in part from hard stones. It is to be noted, however, that the authors include only rock crystal, smoky quartz, amethyst, jasper and agate; all other hard stones are deliberately excluded. The introductory discusses the classes of objects and provides illuminating remarks on the raw materials, their probable sources, lapidary techniques, principal lapidary centers, and other notes which confer interest upon the objects cataloged. The references are particularly valuable either as footnotes or as gathered in the principal listing. This work will become a standard reference to all museum curators and collectors of the type objects described herein, but should also be indispensible to the gemologist interested in the status of lapidary & jewelry work during the centuries considered.

HAIDINGER, WILHELM KARL von (1795-1871)

Austrian mineralogist; b Vienna; stud under Mohs; in Edinburgh arranged R Allan's mineral collection, traveled throughout Europe with Allan's son to 1827; apptd dir mineral cabinet Bohemian Court 1840; with F v Thinnfeld, founded State Geol Inst Vienna 1849; remained dir to 1866; spec in optical crystallography, making important discoveries. Obit Fr v Hauer, *Jb d K K Geol Reichsanstalt*, Wien, 21, 1871, 31-40; Pogg I, 996-8.

2666. -----1844 Über den durchsichtigen Andalusit von Minas Novas in Brasilien. *Abhandl d k böhmischen Ges d Wiss*, Wien, 5 Folge, Bd 3, 1844, 33-40, engrav pl. JSL. First accurate determination crystal forms using transparent crystals from Brazil and upon which Haidinger determined trichroism(see plate). Kobell, *Geschichte der Mineralogy*, 1864, 461.

2667. -----1845 Über den Cordierit. Ibid, 5 Folge, Bd 4, 1845, 1-21, 4 fig. JSL. Descriptions of crystals & pseudomorphs from several deposits and notes colors and trichroism.

2668. -----1845 Über den Pleochroismus der Krystalle. Ibid, 5 Folge, Bd 3, 1845; offprint: [2], 19, [1]p; engrav pl. 26.5 x 21 cm(10 1/2 x 8 1/2 in). GS 34-777. JSL. Suggests "pleochroism" is less restrictive in meaning than either dichroism or trichroism when intermediate colors are described. Depicts and describes a dichroscope made from a calcite cleavage rhomb. Reports and tabulates pleochroic uniaxial and biaxial crystals:apatite, sapphire, ruby, emerald, beryl, tourmaline, smoky quartz, amethyst, idocrase, zircon, cordierite, andalusite, topaz, peridot, epidote, euclase, sphene, axinite, and others. Plate shows construction of the dichroscope, crystallographic and optical axes, and points of observation of uniaxial and biaxial crystals to best observe pleochroism. Fundamental paper of great importance to gemology.

2669. -----1847-1851

Naturwissenschaftlicher | Abhandlungen, | Gesammelt Und Durch Subscription | Herausgegeben | Von | Wilhelm Haidinger. | [rule] | Erster [-Vierter] Band. | Mit XXII [-XXX, XXXIII, XXX] Tafeln | Subscriptionsjahr vom 1.Juli 1846 bis 1.Jul 1847 [-1.Jänner bis 31. December 1850] | [orn rule] | Wien, 1847 [-1851]. | Bei Braumüller und Seidel, | k.k. Hofbuchhändler.

4°'s: XVII, [3], 475, [1 blank]p, 22 litho pls; XXII, [1], [1 blank], 317, [1]p, Pls I-XXVI + 115, [1]p, Pls I-IV; XXI, [1 blank], 178 p, Pls I-XX + 284 p, Pls I-XIII; XVI, 100 p, Pls I-XIII, 104p, Pls I-VIII; 134 p, Pls I-IX. Some pls col, some fold; several are maps. 33 x 25 cm(13 x 9 7/8 in). Cropped. BM(NH). LC 3-6294.

Collected writings on natural history subjects by Haidinger and others and containing several important gemological treatises. Vol I: "On the pleochroism of amethyst, p 1-10, 6 fig. Vol III: Jakob Noeggerath's "On the agate nodules in melaphyres," p 93-104, 1 pl, and with a second part, p 147-62, 2 litho pls depicting inner structure and forms of agate-fillings in nodules. Vol IV: G A Kenngott's "On agate nodules in melaphyres, namely those at Theiss in the Tyrol," Abth 2, p 71-104, with 2 litho pls showing a view and the nodule shapes. Haidinger's article on amethyst attributes dichroism to lamellar twinning as shown in the illustrations; see the same but enlarged article by this author under date 1854 below. Noeggerath's contribution consists of two letters written to Haidinger which provide shrewd observations on agate nodules from mines in the Nahe region, Oldenburg Principality of Birkenfeld, and the area around St Wendel in Prussia. He describes every essential feature in solid and crystal-lined nodules, many specimens of which are

shown entire or in cross-section on the plates. He discusses shapes, positions, and orientations in host rock, occurrences of multiple or connected nodules, fillings, internal structures, layerings, parallel layerings, and other features. A detailed description is provided of an enormous Uruguayan agate nodule of 3'4" long, 1'6" wide, and 1' thickness and weighing 495 pounds, and also on other nodules from this same source. A list of agate localities is given for Germany, especially in the Nahe region. Other interesting information includes minerals found with agate and formulas and methods for coloring agate, also processes for dyeing agates blue and in other hues, with a note on "burning" of agates to induce carnelian color. Kenngott's article is also important, and summarizes his observations on the agate nodules found at Theiss near Klausen in the Tyrol. He postulates that (1) shapes of nodules are dictated by shapes of openings resulting from movement of enclosing rock, and followed (2) by a stage in which the enclosing rock is motionless, and (3) an infill stage, and lastly, (4), the nodule is affected by atmospheric agencies.

2670. -----1854.

Über | Den Pleochoismus | Und Die | Krystallstructur Des Amethystes. | Von | Wilhelm Haidinger, | Wirklichem Mitgliede Der Kais.Akademie Der Wissenschaften. | [rule] | (Aus dem Märzhefte des Jahrganges 1854 der Sitzungsberichte der mathem.-naturw. Classe der | kais.Akademie der Wissenschaften besonders abgedruckt.) [Bd XII, p 401-21]

8°: 23, [1 blank]p; 15 fig. 22.5 x 14.3 cm(8 3/4 x 5 5/8 in). Uncut. USGS Kunz Coll, GS 34-777.

Further remarks on pleochroism with special descriptions of the colored sectors in the cross-sections of amethyst crystals as shown in the classic illustrations.

2671. -----1854 Pleochroismus einiger Augite und Amphibole. Ibid, Jg 1854, Bd 12, p 1074; separate of 14 p, 9 text fig. Not seen.

2672. -----1858

Der Für | Diamant Oder Noch Werthvolleres | Ausgegebene | Topas Des Herrn Dupoisat. | Von | Wilhelm Haidinger, | Wirklichem Mitgliede Der Kaiserlichen Akademie Der Wissenschaften. | [rule] | (Aus dem XXXII. Bande, S.3, des Jahrganges 1858 der Sitzungsberichte der mathem.-naturw. | Classe der kaiserlichen Akademie der Wissenschaften besonders abgedruckt.) | [orn] | Wien. | Aus Der K.K. Hof- Und Staatsdruckerei. | [rule] | In Commission Bei Karl Gerold's Sohn, Buchhändler Der Kaiserl.Akademie | Der Wissenschaften. | 1858.

Centersewn: 21, [3 blank] p. Pale brown print wrap, title on cover. 24.4 x 15.6 cm(9 5/8 x 6 1/8 in). Uncut. JSL.

A large, white, transparent gemstone, owned by Clemens Stephan Dupoisat of France, and cut as a brilliant gem in Paris, was claimed by him to be a diamond of nearly 820 carats, and a certificate to that effect was issued from the Athenée des Arts, Sciences et Belles Lettres de Paris. Because of the enormous publicity given to this gem, which appeared to be the largest cut diamond of record, and in view of doubts already expressed by members of the Parisian jewelry trade as to its authenticity, the stone was given to Haidinger and others to examine, who applied standard tests to establish the stone as faintly-blue topaz. Haidinger describes the testing methods and the grounds upon which the Parisians had decided that the stone was a diamond and proceeds to systematically demolish the latter.

2673. HAILL, ROBERT G

Opals | Of The | Never Never | Robert G.Haill [P IV: Castle Books... Published in 1982... Distributed by Horwitz Grahame Books Pty Ltd]

Title background photo spread over 2 p.

Cementb: VIII, 152 p; 42 photos, 2 sk maps, 38 col photos on 8 glossy f bound-in & counted in pag. Stiff, plasticized col wrap, col photos both covers; spine title. 24.2 x 15 cm(9 1/2 x 5 7/8 in). Cut. Nat Libr Australia Card No & ISBN 0 7255 1389 6. Ca USA $13.00. JSL.

Cont: 1/2tp; tp; publ data; ackn; tab cont; map; fwd; 37 chs.

On Coober Pedy opal field, South Australia, by an experienced miner, written in popular style and meant to inform the beginning miner or visitor what opal is, how it occurs, how it is mined, cleaned, sorted, etc. There is valuable information and advice on modern methods of mining as well as living comfortably in the town or in one of the underground dwellings for which this area is noted. Numerous useful photographs and high quality color photographs, mostly of type opals, and several maps. Poor cementbacking with result the book falls apart upon opening. Rev *J Gemm*, 18, 5, 1983, 444.

2674. HAINING, PETER

The | Fortune-Hunter's | Guide | [orn] | Peter Haining | Foreword by Jack de Manio | [orn] | Sidgwick & Jackson | London [1975]

16°: xii, [1], [1 blank], 162 p; 62 fig, 14 sketch maps. Red cloth-type paper over bds, gilt spine title. 19.8 x 12.5 cm(7 3/4 x 4 7/8 in). Cut. ISBN 0 283 98154 7. JSL.

Cont: 1/2tp; other author bks; tp; publ data; tab cont; ill list; fwd; quote & symbols from Reginald Scot; text; index.

A popular work encouraging prospecting and treasure seeking in the British Isles. The first chapter describes the divining rod and modern metal detectors with instructions on use, while the remainder of the text discusses former gold mining, where "diamonds" may be found as well as other gemstones, also freshwater pearls, metals, buried treasure, and beachcombing. There is even a chapter on finding petroleum and orchids! Most of the information on minerals and pearls is secondhand, and in the case of "diamonds," apparently the author mistakes quartz crystals for the far more precious stones. Small in size but use of small type means considerable information is imparted.

HALFORD-WATKINS, J F (d 1937)

Resident in Burma at the Mogok ruby mines and director of Ruby Mines, Ltd, Mogok. Obit *The Gemm*, 7, 78, 1938, 413, portr.

2675. -----1932 The ruby mines of Upper Burma. A short history of their working. *The Gemm*, 1, 9, 1932, 263-72, sketch map; 11, 335-42; 12, 368-73. Concise accurate survey of local geography, geology, deposits, methods of mining, and other details.

2676. -----1934 Synthetic corundum. Ibid, 3, 34, 1934, 302-11; 35, 333-41, 6 fig.

2677. -----1935 Zircons. Ibid, 4, 48, 1935, 351-59, 3 fig; 5, 49, 7-14.

2678. -----1935 Burma sapphires. Ibid, 5, 50, 1935, 39-43, photo; 52, 89-94, map, photo; 54, 154-57.

2679. -----1935 Topaz. Ibid, 5, 55, 1935, 174-8, 2 fig; 56, 204-7; 57, 216, photo; 58, 242-3, 2 photos; 60, 287-96, 2 photos.

2680. HALL, ARTHUR LEWIS(1872-1955) On "jade" (massive garnet) from the Bushveld in the Western Transvaal. *Trans Geol Soc S Afr*, 27, 1925, 39-55, 2 fig. JSL. First competent geological/mineralogical investigation of massive jade-like grossular garnet, the so-called "Transvaal jade." Properties & compositions determined and comments made on suitability as a gem material. Most important deposits on Farm Buffelsfontein No 205; a minor deposit found in Sekukuniland.

2681. HALL, CYRIL

Treasures of the | Earth | By | Cyril Hall | Author of "Conquests of Engineering" | "Wood and What We Make of It" | "Wonders of Transport" &c. | Illustrated By Thirty-Two | Reproductions From Photographs | And Maps | Blackie And Son Limited | London Glasgow And Bombay [ca 1912]

8°: 288 p; front pl + 31 pls, 2 maps, all tip-in; 6 fig. Maps on thin translucent paper; pls on glossy paper. Pale greenishgray cloth, elaborately dec; rect panel on cover showing a workman, winged like an angel, with torch-and-title, series title in white; Statue of Liberty on spine with title; back cover plain. Pale brown endp. 18.8 x 13.5 cm(7 3/8 x 5 1/4 in). Cut. JSL. Series: "Triumphs of Enterprise"

Cont: ser & 1/2tp; other author bks; pl; tp; print data; pref note; tab cont; ill list; 11 chs.

An inspirational, simply-written text aimed primarily at the juvenile audience, and with chapters on general geology, coal, iron, precious and base metals, salt, clay & porcelain, stone, oil, and precious stones, p 240-64. The latter seems largely derived from Church's Precious stones, and is accurately presented but with a minimum of technical matter and a maximum of romantic lore. Two plates show the Robert Victor diamond mine in South Africa and a table-full of diamonds being graded; several text figures show styles of gem cuts.

HALL, HARRY REGINALD HOLLAND (1873-1930)

Archeologist, antiquary; b Fulham, London; grad Oxford U 1895; apptd to Dept Egyptian & Assyrian Antiquities, British Mus in 1896; participated many explorations/excavations in Egypt, Near East; wrote valuable catalogs for the museum. DNB.

2682. -----1913

Catalogue | Of | Egyptian Scarabs, Etc., | In The | British Museum. | By | H.R.Hall, M.A., F.S.A., | Assistant In The Department Of Egyptian And Assyrian Antiquities. | Volume I. | [rule] | Royal Scarabs. | [rule] | Printed By Order Of The Trustees. | Sold At The British Museum; | And At | Longmans & Co., 39, Paternoster Row; | Bernard Quaritch, 11, Grafton Street, New Bond Street, W.; | Asher And Co., 14, Bedford Street, Covent Garden; | And | Humphrey Milford, Oxford University Press, Amen Corner, | London. | [rule] | 1913. | (All Rights Reserved.] [Vol I all printed]

8°: xxxvii, [1 blank], 310 p; photo pl tip-in facing p xv + ca 1500 text photos & line drawings. Dk green cloth, blind double-rule frames on covers; gold lett spine & blind rules. 27.5 x 19.2 cm(10 7/8 x 7 5/8 in). Cut. JSL.

Cont: tp; print data; pref; tab cont; introd; biblio(15 entries); text; addenda; index.

P [iii]: "This volume contains full descriptions of 2,891 royal Egyptian Scarabs, Cylinder-seals, Seal-amulets, etc., on which are cut the names of kings and royal personages who flourished from the period of the First dynasty, about B.C. 4000, to the end of that of the Ptolemies, about B.C. 50. These are illustrated by 1,518 full-sized photographic reproductions and line drawings distributed throughout the text. Taken as a whole, this Collection... only forms one-fifth of the Scarab Collection in the British Museum... the largest and most important in the world."

2683. -----1929

Scarabs | By | H.R.Hall | [double rule] | Printed By Order Of The Trustees Of The British Museum. | [double rule] | London: | Sold At The British Museum. | [rule] | 1929. | Price One Shilling. | [All Rights Reserved.]

Title from wrap cover. Centerstapled: 16 p, not includ wrap; 33 fig, centerfold glossy double-f(Pls I-IV) of photos, not includ in pag. Thick, pale blue wrap, cover title; publ data inside front cover. 27.1 x 19 cm(10 3/4 x 7 1/2 in). Cut. JSL.

Cont: cover title; publ data; text; pls descriptions.

Defines scarabs and related engraved objects, their purposes, materials from which made, styles and dates of manufacture. The plates on the centerfold depict many examples in the collections as well as photographs of seal impressions.

2684. HALLBERGS GULDSMEDSAKTIEBOLAG, C G

Ädla Stenar | Några ord om ädelstenen som smyckesten | Uitgiven av | C.G. Hallbergs Guldsmedsaktiebolag | Stockholm 1953 [title in pale purple & black]

4°: 51, [1 blank]p (first 2 p blank); 3 glossy col pls tip-in, 2 with printed tissues, 20 photos, 10 marginal sketches(part col), fullp sketch of gem-cutting styles(part col), another part col sketch. Thick paper wrap, purple front cover with title & cut gem in white in ruled frame; spine title; back cover white with price; inward fold flaps. Insides of covers printed in purple & white showing world map of gemstone occurrences(front) and the zodiacal stones(back). 28 x 20.6 cm(11 x 8 1/8 in). Cut. Kr 10. JSL.

Cont: blank f; 1/2tp with quote; tp; fwd; credits & press note; tab cont; text; blank p.

Handsome, artistically designed booklet: a compilation of articles lauding gems & jewels, and adorned by two fine color plates of rough & cut gems by Walter Wild of Idar-Oberstein and fitted with tissue overlays bearing captions. The other color plate shows the royal crown of Erik XIV, of Sweden. The first article by Torsten Link describes the Swedish crown jewels & regalia, followed by a general article on gemstones by Wilhelm Deines, p 23-31, and illustrated with the Wild plates. The third article, a "cultural rhapsody," is on gem & jewel lore by Björn Tillberg. Another article on diamond cutting by Deines, and two unsigned articles on curious lore and famous diamonds complete the text. The last several pages are occupied by illustrations and descriptions of jewelry made by the Hallberg company. This work was reprinted at least once, in 1958, in an identical version save for slightly thinner and glossier paper, slightly smaller, 27.7 x 20.2 cm(10 7/8 x 8 in). The date remains the same.

2685. HALLEMA, ANNE

Het Jade | In De | Oud-Chineesche Kunst | Door | Anne Hallema | [logo] | Koninklijke Kunstzaal Kleykamp [s'-Gravenhage, Netherlands, 1928; title enclosed in a dotted frame]

8°: 63, [1 blank]p; 41 text fig + 1 unnumb fig; ch orns. All pages enclosed in dotted frames. Stiff green wrap, the word "jade" in gold on cover; gold lett spine. 28.3 x 22.5 cm(11 1/8 x 8 7/8 in). Cut. JSL; Yang 1452.

Cont: coin line drawing; tp; tab cont; fwd; 3 chs; description of jades patterned after bronzes; biblio(p 55-8, 50 entries, annot); description of symbols used in jade carvings; publ data; blank p.

This is the first book on jade to be published in the Netherlands; it is a revised version of four articles which originally appeared in the monthly journal *Nederlandsch-Indie, Oud En Nieuw*, Oct, Nov, Dec, Jan 1927-8. Hallema shows that jade carving in early periods followed forms and decorations originally employed in bronze vessels. Examples of bronzes and such jades are illustrated. The great esteem for jade by the Chinese is explained in the first chapter and the significance of the cicada form in the second. The third chapter describes the significance of the mythical monster t'ao-t'ieh as a motif on jades and bronzes. A section following is devoted to jades patterned after bronzes. The bibliography includes most standard works on jade. There is also a short section discussing commonly used symbols in Chinese art and their meanings. Some photographs are from Pope-Hennessey, *Early Chinese Jades*, 1923, and Berthold Laufer *Jade*, 1912; others are of objects in local collections.

2686. HALLEUX, ROBERT Damigéron, Evax et Marbode: l'héritage alexandrin dans les lapidaires médiévaux. *Studi medievali*, 15, 1974, 327-47. Not seen.

2687. -----1979 L'ouevre minéralogique d' Anselme Boèce de Boodt (1550-1632). *Histoire et Nature, Cahiers de l'Association pour l'Histoire des Sciences de la Nature*, Paris, no 14, 1979, 63-78. JSL. "*The Gemmarum et lapidum historia* of the flemish physician... was the most popular textbook of mineralogy of the XVIIth century. The present paper identifies the sources of the book and analyses its attempts to mineral classification, its theories about the genesis of stones and its critical attitude towards their magical and medicinal virtues." There are numerous footnotes citing older literature and modern commentaries.

2688. HALLO, RUDOLF

Hessischer Kristall= | und Steinschnitt des Barock | von Dr. Rudolf Hallo, Kassel | Sonderabdruck | aus Alfred Walcher=Moltheim | "Altes Kunsthandwerk" | Eckart=Verlag Wien, 5. Bez., Spengergasse 21 [nd, post 1928; title from wrap]

4°: p 181-204, Pls 141-50(21 photos). Gray print wrap. 30.5 x 22.8 cm (12 x 9 in). The plates are laid in. Cut. JSL.

Hessian lapidary work in rock crystal during the Baroque Period. In two parts: biographical notes on Christoph Labhardt and contemporary lapidaries of late 17th century who were responsible for the several types of work described in the second part. Both parts rich in historical details, carefully documented. Plates depict typical examples of quartz crystal vessels, engraved gems, and inlays of pietre dure type.

HALLOCK, W, see BISHOP, H R, 1900

2689. HAMADA, KOSAKU; SHIMADA, SADAHIKO & UMEHARA, SUEJI

Report Upon Archaeological Research In | The Department Of Literature. Vol.X. | Studies On The Sites And Remains Of The | Ancient Bead-Workers In The | Porvince [sic] Of Idzumo | By | Professor Kosaku Hamada, Sadahiko Shimada | & | Sueji Umehara | with the | Tables of the Specific Gravity of Jade Magatama and | Other Beads found in Japan and Korea | Appendix: | Corpus of the Polished Stone Arrow-Points and | Daggers discorvered [sic] in Japan | [orn rule] | The Kyoto Imperial University | 1927 [cover: "Published By The Tōkō-Shoin, Tokyo, 1927"]

Above is title to English summary, which appears at the end of the much larger Japanese text and which commences at the opposite end in the usual reversed order. The following describes the English Section:

Edgestapled: fold, part-col map of Idzumo tip-in + [3], v, 20, [1 blank], [1 Japanese, red stamps]p + 39 bound-in pls(photos, 1 fold, 7 tinted) + [1 blank], [a Japanese & Engl tp]. From this point onward, the ills & text are in reverse order and belong to the Japanese portion(see below). JSL.

Cont: pl; tp; pref; tab cont; pls list; ill list; 5 chs; summary tab of spec gravities; blank p; Japanese tp; photo pls; blank p; pls tp.

Japanese Section: Edgestapled: [1], [1 blank], 2, 8, 114 p + 3 pls (2 line drawings, 1 photo). After this appears the plates tp referred to above in the Engl section and then the pls and the Engl text, etc. There are about 12 text fig in the Japanese text and 29 pls bound-in(line drawings, old woodcuts, photos, sketch map part col).

Binding: dk blue cloth spine & corners; spine with gold Japanese characters & gold orn; pale gray paper sides, one end bearing title in Japanese, the other in English. 25.9 x 18.8 cm(10 1/4 x 7 3/8 in). Blank flys at each end; inside covers with other bks in series.

In this large, elaborately illustrated monograph, Hamada, et al, describe sites and remains of ancient workers in stone and gemstones near the villages of Tamatsukuri, Inbe and Ôba in the Idzumo(Izumo) province, Shimane Prefecture, nr the city of Matsue on the north coast of western Honshu. The beads are of several types, the most important being comma-shaped beads called magatama, which have been found in ancient tombs in Japan and Korea and whose use may have preceded the Christian era. They were made from locally-mined and worked quartz varieties as rock crystal, agate, and jasper, but large numbers have been found which are either nephrite or jadeite, the last predominant and raising the question as to its provenance. Jadeite did not appear in Chinese carvings until about the 17th century, thus the mystery of the source for the Japanese specimens is even more profound unless some jadeite deposit can be found to which the jadeite in the beads can be traced. While jadeite has been found in Japan, it is not of the kind used in the beads. A valuable feature of this book is the description of lapidary methods employed in Japan at the time of writing and comparison to the methods which the relics at various sites suggest were used by ancient bead-workers. There are a number of excellent photographic plates showing modern bead-workers plying their skills in various phases of work. Other plates depict views of sites, sources of local gem materials, beads, implements, points and other objects made from stone, and many of the magatama beads. Several plates of the last are colored.

2690. HAMADA, KOSAKU

[Title in Japanese] | Yuchikusaizo-Kogyokufu | Or | The Early Chinese Jades | In the Collection of the Late Riichi Uyeno | [rule] | [table of contents] [Tokyo: nd, ca 1936; information from end of Japanese text]

Edgesewn to the right in Japanese style, the "leaves" consisting of folded sheets, unopened, with fold edges to left; 30 "leaves", 12 pls(single sheets) bound-in; 33 text fig(photos, drawings, woodcuts, maps). The figures shown in outline on the last 5 pls are keys to same, shown in color, on the loose pls described below. Text vol in yellow wrap, to which the blank "leaves" are cemented, the cover bearing a vertical atrip with Japanese characters(title). The corners of text vol protected with yellow silk cloth. 36.4 x 26.8 cm(14 3/8 x 10 5/8 in). JSL.

Plate vol of loose sheets: [6]p (a folded sheet + a single) + 28 col pls, each with tissue bearing Japanese descriptions and numbers, also fig nos in Arabic and Roman; tissues tipped to right. There are 89 objects shown on the plates, corresponding to the outline sketches mentioned above on the last 5 pls in the text vol. Size 36.9 x 27 cm. Both vols in dk blue unfin cloth portfolio, title strip with Japanese characters on cover; bone clasps. The two short flaps enclose the loose pls, over which is laid the text, and over that are folded the two large flaps. In another copy, pls enclosed in slipcase with text; in similar blue cloth portfolio but lacking the inward-fold central flaps. See comment by G M Born, 196.

The text treats important jade books, describes jade minerals and others similar to jade or mistaken for same, sources, and with reproductions of old woodcuts showing scenes of "fishing" for nephrite boulders and lapidary methods, and with four photographs on a single plate showing Chinese carvers at work. The text also discusses ancient Chinese jades and with text figures showing archaic forms. One of the plates reproduces two maps, one of Asia and the other of Turkestan, each indicating jade sources. The color plates are preceded by indexes, one in English, giving pl no and object nos with identifications and dates. While the colors upon the plates are somewhat muted in tone they are probably realistic and are sharp in detail. Very scarce.

2691. -----1936 or 1937, Chinese transl. Ku yü shuo or Guyu gaishuo [Jade: a summary]. Shanghai, x, 84 p, many b&w text figs, 22 x 16 cm, paper. Not seen, from Hansford, *Chinese Jade Carving*, p 131, who gives the date as 1936; the second reference title is from Han-Shan Tang, London, booksellers, List 28, 1985, item 28, "translated by Hu Zhaochun from Japanese, Yang 5."

2692. HAMBURGISCHES MAGAZIN III. Geschichte von Edelsgesteinen und den vornehmsten Reichthümern in Ost= und Westindien. Aus den Französischen. *Hamburgisches Magazin, oder gesammleter Schriften, aus der Naturforschung und den angenehmen Wissenschaften überhaupt*, Hamburg & Leipzig, Bd 18, Stück 5, 1757, 500-43. Based on Chappuzeau's *Histoire des joyaux*, Geneva, 1665, which see. On diamond, sources, especially in India, its valuation, and other information, followed by discussions of colored stones, pearls, coral, amber, metals,ambergris, indigo, etc.

HAMEL, JEAN BAPTISTE DU, see DU HAMEL

HAMILTON, WILLIAM JOHN (1805-1867)

Brit geol, writer, businessman; fellow Geol Soc London; MP. DNB 1, 884.

2693. -----1848 On the agate quarries of Oberstein. *Quart J Geol Soc London*, 4, 1, 1848, 209-16, fig. JSL. Describes local geology, rocks, and deposits of agate nodules, methods of mining, remarks on internal features of nodules, patterns, bandings, coloration, etc, also origin and how material utilized in local agate-cutting mills and how it is colored, the last being based on the comments of Prof Noeggerath and personal observations of the author. An important firsthand account. Agassiz III, 177.

HAMLIN, AUGUSTUS CHOATE(1829-1905)

Med doctor; b Columbia, Maine; grad Bowdoin Coll 1851; MD Harvard 1854; surgeon, US Army in Civil War; settled Bangor, ME 1865, and in that year began excavations in Mt Mica tourmaline mine; he was the son of Elijah L. Hamlin, one of the co-discoverers in 1820 of this famous deposit.

2694. -----1873

The Tourmaline | Its Relation As A Gem; Its Complex Nature; Its Wonder- | Ful Physical Properties, Etc., Etc.; With Special | Reference To The Beautiful And Match- | Less Crystals Found In The | State Of Maine. | By A.C. Hamlin, M.D., | "Membre de la Société Royale des Antiquaires du Nord," Member of the | Academy of Sciences, Philadelphia, &c., &c. | With Illustrations. | [logo] | Boston: | James R.Osgood And Company, | (Late Ticknor & Fields, And Fields, Osgood, & Co.) | 1873.

12°: extra blank flyleaf + 107, [1 blank]p + another blank flyleaf; 4 tip-in col pls on stiff white paper, each with paper guard; one is front. Green, sepia, or blue,ribbed cloth, title & gilt tourmaline crystal on cover with black-rule frame & orn; gold lett spine; blind-rule frame back cover. Dull-finish brown endp. 18.9 x 12.1 cm(7 1/2 x 4 3/4 in). Cut. LC 10-8258. JSL.

Cont: blank fly; pl; tp; publ data; quot; tab cont; introd; 5 chs; blank p; blank fly.

In this handsomely bound and illustrated slim volume appears the first substantial account of the superb-quality gem tourmaline crystals found in the Mount Mica pegmatite body in Oxford County, Maine. The author not only was the son of one of the original discoverers, he also engaged in extensive exploitation of the quarry and thus speaks from firsthand experience. Written with loving care, this modest work provides pleasant and instructive reading to this day, even for those who possess no special knowledge of minerals or gems. The text provides an account of tourmaline history, the derivation of its curious name, and is followed by a chapter on places where it has been found and the kinds of deposits in which it occurs. The third chapter is by far the most important for historical reasons because it describes the original discovery and exploitation, p 36 to 75, while the fourth chapter treats the mineralogical properties of tourmaline, and the last chapter, very brief, gives a general dissertation on gemstones which could have been omitted without loss. The plates, full-color lithographs, were prepared by Louis Prang & Company of Boston after original watercolors by the author. These plates are referred to on p 133 of Katherine Morrison McClinton's *The Chromolithographs of Louis Prang*, New York, 1973. While some of Hamlin's drawings are realistic, many are better called colored diagrams which attempt to show the proportions of the crystals and the distribution of colors within them. They are unmistakable and characteristic of the

author. A large collection of the originals may be seen, framed, in the Harvard University Mineralogical Museum, Cambridge, Massachusetts. In most copies the paper is lightly browned but the books are otherwise well-made and are surviving well. In a later issue, there is sometimes found, tipped-in at p 57, a small printed slip stating "Recent explorations on either flank of the pit, have yielded admirable specimens of the tourmaline, and the lithia minerals, and convince me that the deposit is more extensive than supposed, and far from being exhausted. A.C.Hamlin. Bangor, September 20th, 1881."

2695. -----1884

Leisure Hours Among | The Gems | By | Augustus C.Hamlin | Author Of A Treatise On The Tourmaline | Fellow Of The American Association For The Adavancement Of Science | Member Of The Royal Society Of Antiquaries Of Northern Europe | Chevalier Of St.Anne, Etc. | [6 line quote from Rabelais] | [logo] | Boston | James R.Osgood And Company | 1884

12°: 439, [1 blank]p; col litho pl, with tissue is front, tip-in + another facing p 367, with guard, also tip-in; both guards badly browned & embrittled. Mustard-yellow,light bluish-green or brown ribbed cloth, Imperial Russian Crown in gilt on cover; gold lett & sapphire crystal in gold on spine. Pale yellow dull-finish endp. 18.9 x 12.3 cm(7 3/8 x 4 7/8 in). Cut. $2.00. LC 8-36597.

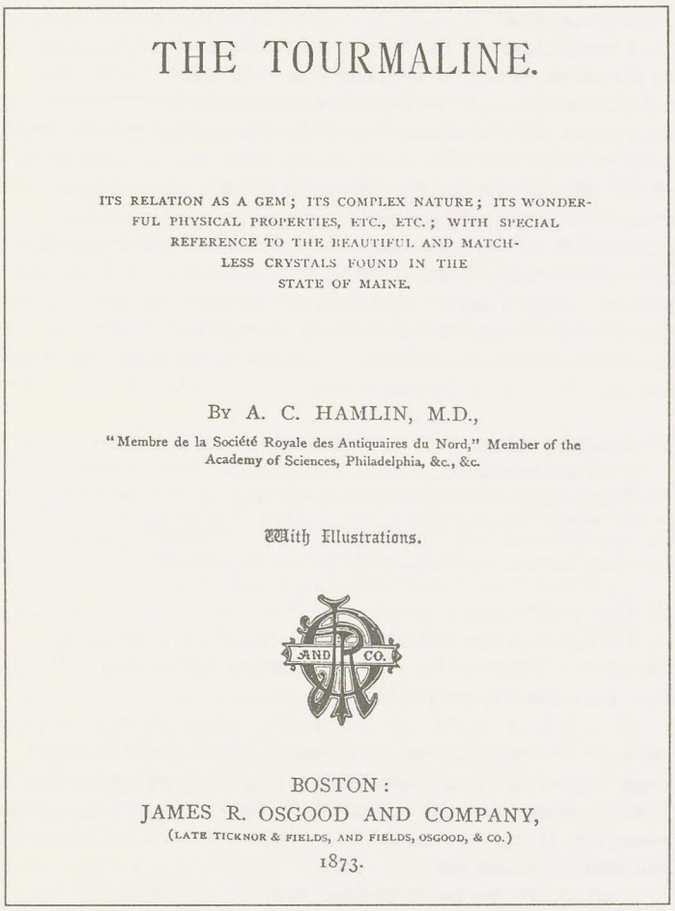
Cont: 1/2tp; pl; tp; publ data; dedic; tab cont; ill list; text in 4 parts; index; blank p.

A charming and truly leisurely stroll through the knowledge and lore of the diamond, the emerald, the opal and sapphire, although so much space is devoted to the diamond that the book is more a monograph on that mineral than a general gemological treatise, taking up p 13 to 282, with the other gemstones given just enough space to say that they have been dealt with fairly. Under diamond are found discussions of early knowledge of this stone, its deposits, origin, properties, and much on famous diamonds and jewels, but also sections on cutting, testing, and valuation. Substantial portions of the chapter on diamond cutting were printed in *The Popular Science Monthly*, 8, 188-?, p 206-11, 13 fig, prior to its appearance in the main work. However, the figures of diamond cutting styles were not used in the book. A footnote states that the article is "from a work on "The Diamond," in press of D.Appleton & Co." but apparently this work was never printed because there is no record of it anywhere. Hamlin was acquainted with early gemological works and in places these are referenced but not assembled into a list. There is much interesting material presented here and the book is worthy of reading at any time. The two chromolithographs, by Prang of Boston, are crudely done, the first depicting the Russian Imperial Crown of Empress Anna Ivanova, and the second a doubly-terminated Ceylon blue sapphire crystal that was in the author's collection. A long extract from this work in "The Emerald," *Mineral Digest* magazine, New York, 3, summer 1973, p 17-32, 7 col photos.

2696. -----1891, reprinted, with omissions

Leisure Hours Among |...[logo omitted]...| Boston And New York | Houghton, Mifflin And Company | The Riverside Press, Cambridge | 1891

12°: extra blank flyleaf supplied + [10]p + p [13]-439 + [1 blank]p + extra blank flyleaf. Former front pl omitted, in its place is sapphire pl with tissue, tip-in. Leaf bearing ill list omitted thus accounting for pag gap. Dull brownish-yellow cloth, same let & orn. Very pale tan, ribbed endp. 19.6 x 12.8 cm(7 3/4 x 5 in). Cut. Teg. JSL.



THE TOURMALINE.

ITS RELATION AS A GEM; ITS COMPLEX NATURE; ITS WONDERFUL PHYSICAL PROPERTIES, ETC., ETC.; WITH SPECIAL REFERENCE TO THE BEAUTIFUL AND MATCHLESS CRYSTALS FOUND IN THE STATE OF MAINE.

BY A. C. HAMLIN, M.D.,

"Membre de la Société Royale des Antiquaires du Nord," Member of the Academy of Sciences, Philadelphia, &c., &c.

With Illustrations.

BOSTON:
JAMES R. OSGOOD AND COMPANY,
(LATE TICKNOR & FIELDS, AND FIELDS, OSGOOD, & CO.)
1873.

2694. Classic early monograph on the tourmaline, with much on Hamlin's Mt Mica, Maine specimens

2697. -----1895

The | History Of Mount Mica | Of | Maine, U.S.A. | And | Its Wonderful Deposits of Matchless | Tourmalines | By | Augustus Choate Hamlin | Author of A Treatise on the Tourmaline, Leisure Hours Among the Gems, | Fellow of the American Association for the Advancement of Science, | Member of the Royal Society of Antiquaries of Northern | Europe, Chevalier of St.Anne of Russia, etc. | [rule] | Bangor, Maine | Published By Augustus Choate Hamlin | 1895

8°: [3 blank]f + [2], 72 p; the blank f are conjugate in the first gathering; fold photo panorama glossy pl, tipped-in facing p [6] + 3 other tip-in glossy pls + XLIII (actually 50 pls, of which Pl XV is duplicated, also serving as tip-in front pl), all pls col except 6 which are line drawings + 2 unnumb pls (sketch maps). The plates are edge-sewn in part and bound-in after text. Dk green or red cloth, gold title on cover & spine. 21.6 x 14.3 cm(8 1/2 x 5 5/8 in). Cut. GS 9-623; JSL.

Cont: 3 blank f; pl; tp; publ data; dedic; tab cont; ill list; quot; panorama pl; 7 chs; pls.

There are only 72 pages of text in this work, or about one-third the thickness of the whole, the remainder being occupied by the plates, mostly in full-color and in Hamlin's inimitable style. Most of the plates display a single crystal or tourmaline. Two plates at the end are plans of the Mount Mica pit showing locations of pockets discovered during work. The seven chapters of text treat discovery and exploration history, disposition of material found, visits by eminent figures and scientists, and explanations of crystals depicted as well as other interesting facts. The book is virtually unique in that it combines careful, concurrent reporting of day-to-day mining of an important gemstone deposit and descriptions of the finds during the period when Hamlin was in charge. Of all of Hamlin's works this is the most common but is now becoming scarce.

HAMMER, ARMAND (1898-1990)

USA businessman, philanthropist, collector of art; MD from Columbia U; at age 19 took over his father's pharmaceutical business; at 23 made first trip to Russia and served for many years as agent for firms doing business in the USSR, and operated his own enterprises; left USSR 1930; later bought Occidental Petroleum. The work below is essentially early autobiographical.

2698. -----1932

The Quest of the | Romanoff Treasure | By | Armand Hammer | Foreword by | Walter Duranty | New York | William Farquhar Payson [1932]

8°: x, [1], [1 blank], 241, [3 blank]p; glossy photo front pl tip-in + 15 similar tip-ins. Tan, unfin cloth, Imperial Russian eagle in gold on cover; gold lett spine. Gold dj, overprinted with black to expose title and eagle; title in black on spine; back cover plain; flap resume. 20.4 x 13.8 cm(8 1/8 x 5 1/2 in). Fe & be untrimmed. $3.00. JSL.

Cont: 1/2tp; pl; tp; publ data; fwd; ill list; text tp; 19 chs; append; 3 blank p.

The author, an extremely wealthy American oil-man and entrepreneur, but then a virtually unknown young businessman and serving as an agent for American businesses in Russia from 1921 to about 1930, when the country was recovering from World War I, describes his adventures, the turmoil caused by the Revolution, and the difficulties besetting any attempts to do business. The title of the book refers to his successful arrangement to buy and export a collection of art objects which the Revolutionaries had to sell to obtain desperately-needed foreign exchange. Among them were a number of important pieces by Fabergé, including jewels, crowns, Easter eggs, and the like. Several major pieces are described in the appendix, p 237-39, while seven of the plates depict crowns and other pieces, and include a view of a table covered by a portion of Tsarist jewels. W Duranty, b 1884, author, journalist.

2699. -----193-(?), 2nd edit, not seen

2700. -----1936, 3rd edit

The Quest of the |...| New York | The Paisley Press, Inc. | Succeeding | William Farquhar Payson | 1936

P[ivl: "Third edition of which 1200 copies on special paper are reserved for the author and his friends and clients." P size taller: 20.7 cm (8 1/8 in); pls show wear, impressions fainter; special paper version not seen.

2701. -----1937, London Printed from same plates but title now bears at foot: London | Williams & Norgate Ltd. | New York | The Paisley Press, Inc.; and p[iv]: Published in Great Britain in 1937.

2702. HAMMES, J (1892-1963) Goud Zilver Edelstenen. Haarlem, 1943. Not seen.

2703. -----1945, 2nd edit

Goud * Zilver | Edelstenen | Inj J.Hammes | Tweede Druk | [logo] | De Technische Uitgeverij H.Stam * Haarlem [1945; title in pale red-brown & black]

8°: 602 p; 5 bound-in glossy col pls; 387 fig; front sketch in pale reddish-brown & black. Pale green, unfin cloth, terra cotta panel on cover with gold crucible, blind-ruled frame; similar panel with title plus logo on spine. V pale green endp. 26.7 x 19.5 cm(10 1/2 x 7 3/4 In), Cut. Te stained yellow. JSL.

Cont: 1/2tp; front; tp; quot & publ note; introd; tab cont; fwds; 19chs (includes index).

Large, lavishly illustrated comprehensive textbook for apprentices in various branches of the jewelry trades. The work was published under the aegis of the Federatie Goud en Zilver [manufacturers] in The Netherlands. The first part treats metals and their fabrication and takes up alloying, melting, assaying, metal forming, soldering, polishing, etc, also preparation of steel dies and engraving and etching of metals. This is followed by descriptions of miscellaneous techniques, eg, enameling, plating, raised work, hollow ware, casting, designing, and heraldry. The material on gemstones, however, is comparatively brief, p 445-93, in which diamond, pearl, and other gemstones are described along with some technical gemology and a short section on gem engraving. A color plate of an aquamarine crystal and another of a pearl-shell ornament are included in this chapter. Most is devoted to the diamond, particularly its cutting. The book closes with chapters on coinage, hallmarks, the Netherlands museum of jewelers arts, bookkeeping for jewelers, and trade organizational matters.

2704. -----1946, 3rd edit (?) Not seen, listed in J.D.Willems, Chicago, Catalog 15, item 15-152: 594 p, estimated 500 ill(some col), p size 7 1/4 x 10 1/2 in.

2705. -----1962 Uit De Wereld Der Edelstenen... Grote Phoenix Pocket no 77, W. De Haan, Standaard Boekhandel Zeist, Antwerp, 1962. Cementb: 157, [2 advert] p; 33 b&w & 7 col photos on 12 bound-in glossy f; 17 fig. Col wrap. 19 x 11.5 cm(6 1/2 x 4 1/2 in). General treatise on gemstones: definitions, properties, gems in culture, gem lore, descriptions of individual gemstones and synthetics, color in gemstones, organic gemstones, engraved gems.

2706. -----1965, 2nd edit

J.Hammes F.G.A. | edelstenen | de aard dezer mysterieuze natuurprodukten | en hun beteknis voor de mensheid | 1965 | Uitgeversmaatschappij E.de Haan N.V., Zeist | N.V. Standaard Boekhandel Antwerpen

Cementb: 203, [1 blank] p; 30 b&w & 8 col photos on 8 glossy bound-in f; 17 fig. Pale grayish-silver wrap, cut gem photo on cover, title in black & blue; white spine with title; vita of author & resume back cover. 19.9 x 12.3 cm(7 7/8 x 4 7/8 in). Cut. Dfl 3.95. JSL.

Cont: 1/2tp; quot; tp; publ data & history; tab cont; introd; 34 chs; tab properties; biblio(p 199-200, 22 entries); index; blank p.

In this considerably enlarged edition the author again takes up a great many topics and again is not able to do more than to treat them briefly. The entire work is written in popular style but contains much that is useful and informative although some mistakes in the previous edition have not been corrected and others introduced, eg, the rose diamond cut is said to be a "principal" cut, p 46-7, opal is a quartz variety, p 90, and others on tourmaline and dravite. Rev *J Gemm*, 9, 2, 1963, 63-6, "a most useful work which, unfortunately, the author did not live to see published."

2707. HAMMONS, LEE

Southwestern Turquoise | [col photo] | The Indians' Sky Stone | by Lee Hammons | Director, Arizona Mineral Museum [Wrap title; Arizona Maps, Glendale Arizona, 1973]

Centerstapled: [24]p; 9 b&w, 5 blue-tinted, & 18 col photos; centerfold col sketch map of turquoise regions of USA. White wrap, title & photo on cover; col photo back cover; b&w photos inside covers. 28 x 21.5 cm(11 x 8 1/2 in). Cut. $3.00. JSL.

An introduction to turquoise beginning with its cultural aspects, use in jewelry, its history and curious lore, important deposits and geology & mineralogy of same, economics of mining, lapidary treatment, and treated material. There are also tips for the selection and care of turquoise. A clearly-written, authoritative work.

2708. -----1977

Mineral and Gem | Localities | In Arizona | By Lee Hammons, Geologist-Mineralogist [foregoing upon a line drawing of sediments] | Arizona Maps and Books | P.O.Box 1133 · Sedona, Arizona | 30 Maps for Collectors and Prospectors | Minerals - Gems - Fossils - Rocks [1977]

Black plastic spiral binding: 111, [1 blank]p; 30 fullp col maps; pencil portr of A L Flagg; 8 photos + text figs, index sketch maps, etc. Thick black cardbd covers with col maps both covers, photos inside back cover. 26.8 x 17.8 cm(10 1/2 x 7 in). Cut. JSL.

Cont: tp; publ data; portr; ackn; tab cont; 8 chs; gloss; other publs.

The real substance in this popular collecting guide to the State of Arizona is the series of 30 colored geological maps which systematically cover rectangular areas of the state. In addition to the basic geology they show highways and towns with crossed circles to pinpoint localities. Differences in the circle sizes indicate relative accuracy of the location. Each map is accompanied by a list of minerals for each place and an index map showing where the area is located in the state, No mine names or other amplifying data are supplied but there are chapters on general geology, collecting, prospecting, and the like, with one chapter explaining how the maps are to be used.

2709. HAMMONS, LEE & HILL, GERTRUDE FRANCES

Turquoise And The Navajo | By | Lee Hammons | and | Gertrude Frances Hill | Color photography by | Lee Hammons | First Edition | Arizona Maps And Books | Dedicated to my daughter, Lynne Bowers, who drew the | illustrations, including the cover. L.H. [Glendale, Arizona, 1975]

Centerstapled: 34 p (pag includes front but not back cover); 16 col photos on inside covers; col sketch on front cover; col photo back cover; 10 text drawings; 1 doublep sketch map. Title, text sketches, map, headlines, etc, in brown ink. Col wrap, title in red on cover. 22.8 x 15.1 cm(9 x 6 in). Cut. $1.95. JSL.

In two parts, the first by Hammons on cultural aspects of turquoise among the Navajo Indians, and the second on "myriad facets of Navajo religious beliefs, myths, superstitions and ceremonies." Included in the first part is a short essay on the trade in turquoise and in Indian-made jewelry, with a centerfold sketch map of turquoise-producing areas. A handsome, useful, and authoritative booklet.

2710. HAMSCHER, WALTER

Diamanten | und Brillanten | von | Walter Hamscher | Idar=Oberstein | Alle Rechte vorbehalten, insbesondere auch auszugsweise und ausserdruckliche Verwendung [priv publ: Buchdruckerei Behnert, Idar-Oberstein, 1966]

4°: 82, [2 blank]p (first 2 p blank); 12 col sketches with matching col lett; 1 b&w sketch; 3 photos. Thick white paper wrap, pale brown lett on cover with pale blue cut gem. 20.5 x 14.7 cm(8 1/8 x 5 3/4 in). Cut. JSL.

Cont: blank f; tp; print data; tab cont; fwd; introd; text; append; blank f.

A general work on the diamond by a person who advertises himself on the front cover as a "Diamond and Brilliant-Cutting Master," and member of the Industry and Trade Chamber of Koblenz. Treated are deposits, diamonds as investments, nature of the rough, the diamond syndicate, sizes, weights, color and impurities in diamond, cutting (subdivided into the several specialized operations), cut styles, losses due to cutting, diamond in industry, and an appendix which lauds the leadership of Idar-Oberstein in the lapidary industry. All in all, a very good text written in simple language and containing "factual knowledge for persons who work with diamonds, own them, or will acquire them."

2711. HANAUER, ELSIE

Rocks And | Minerals | Of The Western | United States | by Elsie Hanauer | [vignette] | [logo] | South Brunswick | New York: A.S.Barnes and Company | London: Thomas Yoseloff Ltd [1976]

16°: 237, [3 blank]p; 10 col photos on 2 bound-in glossy f includ in pag; many line drawings(most are maps); numerous photos. Blue cloth-type paper over bds; gold lett spine. Col dj, cut gems on cover; resume; vita; author portr. 25.1 x 16.8 cm(9 7/8 x 6 5/8 in). Cut. $12.00. LC 73-144. JSL.

Cont: 1/2tp; other author bks; tp; publ data; tab cont; introd; text; biblio(p 237, 16 entries); 3 blank p.

An extremely poor book, written by an author who obviously is unfamiliar with her subject. The meager text, generously interlarded with much white space, is replete with errors and misleading statements, and, in places, is unintelligible because of having no prior groundwork laid upon which to base the statements. Neither the first part on geology and mineralogy nor the second part on where to hunt are useful. Quite simply, the author who writes on many diverse subjects, eg, horses, woodcarving, Indian dolls, etc, is out of her element here.

HANCARVILLE, D', recte HUGUES, PIERRE FRANÇOIS(1729-1805)

Prolific Fr author of political, sociological, cultural works, and antiquities in which field he was expert; b Nancy, son of a draper, but later posing as a gentleman of high station; self-educated to a high degree; extensive travels throughout Europe, and changing name to suit the country of residence; friend of Sir William Hamilton, also Winckelmann, among other major figures. *Biogr Univ*, 66, 396-8.

2712. -----1780 Monumens de la vie privée des douze Cèsars, d'après une sèrie de pierres gravées sous leurs regnes. Caprée (Nancy, Leclerc), 1780. Not seen: from *Biogr Univ* 66, 396-8; Goodland, *Bibliogr Sex Rites*, 261-2, who gives the work as 4°, xii, 196 p, 50 pls, engrav tp; Vinet 1633.

A famous pornographic work illustrated with 50 engravings of so-called antique gems, all spurious, to illustrate sexual customs and practises of the Roman nobility. Furtwängler, *Die antiken Gemmen*, 3, 420, confirms the falsity of the gems, disparages the work entirely, and remarks that C T Murr, *Bibliotheque glyptographique*, 1804, p 152 ff, "delighted" in describing the gems in detail. The plates depict phallic symbolism, worship of Priapus, and various modes of coitus. The work achieved considerable notoriety and various editions and reprints appeared, the latest in Basel, ca 1970, as described below. See also under LEBLOND, *Biogr Univ*, 23, p 488.

2713. -----1906, Ger transl Bilder aus dem Privatleben der römischen Caesaren. Auf Capri bei Sabellus 1780. Deutsche Ausgabe. Gedruckt für Heinrich Conradt und seine Freunde. x, 1966 p, pls, front. 4°. Not seen: from Goodland, ibid, 262, who gives thc date of 1780 on the titlepage but the actual date is said to be 1906 in the most recent edition below.

2714. -----1970(?), new edit, Basel

Hancarville | Pierre-Francois Hugues | Bilder | Aus Dem Privatleben | Der | Römischen Cäsaren | Verlag Kurt Desch [Basel, nd, ca 1970]

p[4]: "Deutsche Übertragung von Heinrich Conradt | Erstausgabe erschienen 1906." Issued in uniform binding with *Denkmäler* (see below) in a single slipcase, in limited, numbered edition.

4°: 310, [1], [1 blank]p; front ill; 50 photo reproductions of original engrav, one per otherwise blank f, but all counted in pag. Magenta-pink unfin cloth(silk?), with frontispiece ill cut-out & mounted on blind-stamped recess on cover within gold single-rule frame; title in gold on spine printed in 2 rectangular depressions. Te pale red-orange. Plain, colorless plastic sheet dj. 24.5 x 16.7 cm(9 5/8 x 6 1/2 in). Cut. with companion vol in plain cardbd slipcase. JSL.

Cont: 1/2tp; front; tp; publ data; fwd; tab cont; pls & explan; note on limited edit; blank p.

The frontispiece reproduces what appears to be the engraved title of an earlier printing, but it reads as follows: "Les | Délices Des Césars" at the top and below, "d'après une | suite de Pierres | gravées sous leur regne," and farther below, "A Rome, de | l'imprim.ie de Vatican 1792." This suggests that at least one, perhaps more editions were issued after the initial issue in 1780.

2715. -----1784 Monumens du culte secret des dames romaines, pour servir de suite aux Monumens de la vie privée des XII Césars. A Caprée [Nancy]. Chez Sabellus [Leclerc]. 1784. xxvii, (1), 98 p, 50 pls, engrav tp, 4°. Not seen: from Goodland, 262. As indicated in the title, a companion work to the preceding. Goodland states "the designs on these alleged "gems" were entirely the product of Hancarville's own imagination." Furtwängler, however, noted that "here at least some antique gems were employed, as a cameo of the old Medici treasure in Naples [Pl 10, no 15]. Most are modern inventions."

2716. -----1906, Ger transl

Denkmäler | des | Geheimkults der römischen Damen | Fortsetzung | der Bilder aus dem Privatleben | der römischen Caesaren | Auf Capri bei Sabellus | 1784 | [double rule] | Deutsche Ausgabe | Gedruckt für Alfred Semerau und seine Freunde [1906]

4°: [1 blank], [1], XVI, 96 p; front + 48 pls on single f but not includ in pag. 25.8 x 20.2 cm(10 x 8 in). Cut. Hand-laid type paper, pale tan. JSL.

Cont: blank p; front; tp; "187"(presumably the limited edit no); fwd; tab cont; pls & text.

The plates, apparently photo-engraved on metal, are not identical to those in the modern edition described below, the latter presumably reproducing the plates of the 1784 original, while this edition has had its plates made specially.

2717. -----1970(?), new edit

Hancarville | Pierre-François Hugues | Denkmäler | Des Geheimkults | Der | Römischen Damen | Verlag Kurt Desch [Basel, nd, ca 1970]

P [4]: "Deutsche Übertragung von Alfred Semerau | Erstausgabe Erschienen 1906." Issued in uniform binding by the same publisher with *Bilder Aus Dem Privatleben*, etc, in single slipcase; limited, numbered edition (no 289, in JSL).

4°: 212, [1 blank], [1], [2 blank]p; front ill; 48 photo reprods of orig engravs, one per otherwise blank f, but all includ in pag.

Cont: 1/2tp; front; tp; publ data; fwd; tab cont; text & pls; blank p; publ notes with purchase agreement and limited edit no; 2 blank p.

The purchase agreement, to be signed before sale, states that the set of two books will be kept closed and not made available to any person under 21. This note & limited edit no in this vol only.

2718.-----1771(?) Veneres uti observantur in gemmis antiquis. Lugd.Batavorum, No text: 72 pls. Small 8°; 2v in one. Not seen, from Goodland, 262. The latter also lists the same or reprint as "2 v. in one. Preface of 10 pp. and text to the 30, 35 plates. Title-page engraved. Small 8vo." Not seen.

2719.-----177-(?)

Veneres | Uti | Observantur | In Gemmis | Antiquis | [rule] | Lugd | Batavorum [no publ, no date; Leyden]

Full engrav title, words & rule in white on black ground, surround of plinths & satyrs with erect penises, goats at their feet, etc. The 2nd engrav title depicts a bull's head with grape arbor surround.

8°: titlef supplied + [7], [1 blank]p + [69], [1 blank]p + engrav titlef supplied & bound-in + [65], [1 blank]p; a^4, A-H^8, I^4. 70 pls, 35/vol; in Vol II, pls numbered 2-36. 21.4 x 13.2 cm(8 1/2 x 5 1/8 in). Cropped, JSL.

Cont: engrav tf; 1/2tp; prefaces(Engl & Fr); blank p; pls & tex; vol 2 tf; pls & text; blank p.

The engravings are more completely pornographic than in the two previous works and are carefully engraved in delicate line, generally with black grounds to emphasize the figures. A high degree of artistry has been expended upon their design. According to the parallel English & French texts, a number of the gems are genuine and are included in well-known collections. Brunet V, 1119; Graesse,VII, 275. Very rare.

2720. HANCOCK, C F

Illustrated and Descriptive Catalogue | Of The Celebrated | Devonshire Gems | From The Collection Of | The Duke Of Devonshire, K.G. | Arranged And Mounted For His Grace, | As | A Parure of Jewels, | By | C.F.Hancock, | 39, Bruton Street, London. | [wavy rule] | Entered At Stationers' Hall. | [wavy rule] | Westminster: | Printed By T.Bretell, Rupert Street, Haymarket. | [rule] | 1857. [London]

8°: 14, [2]p; front fold wood engrav pl, bound-in; 7 wood engrav text fig. Light blue wrap, "The Devonshire Gems" on cover. 20.5 x 16.7 cm(8 1/8 x 6 1/2 in). Cropped. Also in special issue bound 4°: 14, [2]p, same text fig, but front printed on tan silk, title and all text enclosed in single, wavy-rule frames. Dk purple leather, gold title on cover enclosed in 2-rule border frame; same frame on back. Red, moire silk endp with extra blank flyleaves. 27.7 x 21.8 cm(11 x 8 5/8 in). Cut. Aeg. JSL. USGS Kunz Coll, GS 34-906.

Cont: pl; tp; pref; text; press opinions.

Describes the elaborate seven-piece ensemble of jewelry which incorporates cameos and intaglios selected from the Duke of Devonshire's collection. They were made by C F Hancock, a well-known jeweler of London, who originally suggested the idea. It is not clear if he wrote the text but in any event there seems to be no doubt that one of its purposes was to add luster to the Hancock name. The deluxe version was probably prepared for his Grace for private distribution.

HANKS, HENRY GARBER (1826-1907)

Adventurous, versatile seaman turned scientist; after sea duty, to Calif mines 1852-6; traveled again in 1856 but returned to Calif 1861, to join Calif Acad Science of which he became curator of minerals 1862-3; again traveled to Europe, and returning to Calif founded Calif State Geol Soc & elected first president; Calif commissioner to Paris Expo 1878; first State Mineralogist of Calif, head of State Min Bur 1880-6; the mineral hanksite named after. *NC Amer Biogr*, 13, 129.

2721. -----1882 Diamonds in California. *Second Rept State Mineralogist Calif*, Dec 1, 1880 to Oct 1, 1882, Sacramento, 1882, 241-54. General account of the diamond, its history, properties, famous diamonds, etc, but also containing first important record of finds within the state as based upon eyewitness accounts.

2722. -----1884 Catalogue and description of the minerals of California as far as known, with special reference to those having an economic value. Alphabetically arranged. *Calif State Min Bur, Fourth Ann Rpt State Min* for Yr ending May 15, 1884, Sacramento, 1884, 61-410, 2 litho pls, 7 wood engrav(one part col), fold tab. JSL. Now greatly enlarges information on California diamonds as given in the above entry, the section on diamonds occupying p 159-72 and forming the first major account ever to be published. As before, it is preceded by a general description of the diamond and its lore, and then details of California diamonds, where and when found, weights, sizes, etc. The first illustration of a California diamond appears here as a wood engraving of a lenticular crystal found in Amador County. Aside from diamond, other gemstones treated in this first California mineralogy are agalmatolite, andalusite(chiastolite), aragonite marble (probably calcite marble), gypsum, opal, quartz, including gold-in-quartz, rhodonite, serpentine, talc. All these early annual reports of the State Mineralogist are now scarce.

HANLEY, JOHN BERNARD (1913-1975)

US geol; BS Bates Coll 1934; AM Harvard U 1936; PhD(Geol) Johns Hopkins U 1939; joined USGS 1942, specialty granitic pegmatites. *NC Amer Biogr*, 59, 6-7

2723. -----1951 Economic geology of the Rincon pegmatites, San Diego County, California. *California Div Mines Spec Rpt* 7-B, 1951, centerstapled: 24 p, fold part-col geol map; 5 fig(3 geol sketch maps). Pale green print wrap. 28 x 21.8 cm(11 x 8 5/8 in). Cut. $.35. JSL. Gem quality aquamarine, tourmaline, spodumene found in a number of pegmatite bodies. For previous study this district and its pegmatites see A F Rogers, "Minerals from the pegmatite veins of Rincon, San Diego, Co, California," Columbia Univ, New York, *The School of Mines Quarterly*, 31, 3, 1910, 208-13, 13 fig.

2724. HANNAN, FRANK

Gold, Mineral & Gemstone | Localities Of | New South Wales | Arranged and edited | by | Frank Hannan | Continental Atlas Agency | P.O.Box 30, Kensington, N.S.W. | 1965

8°: [5], [1 blank], 130 p; fold index map tip-in inside back cover. Yellow paper over bds; black lett cover & spine, with pick & shovel orn on both covers. 18.4 x 11.8 cm(7 1/4 x 4 5/8 in). JSL.

Cont: tp; publ data; pref & ackn; tab cont; text; note; map.

Succinct statements for each district in the State of New South Wales Australia: what was mined and found, and where. The folding map pinpoints sites

2725. HANNAY, JAMES BALLANTYNE(1855-1931) On the artificial formation of the diamond. *Proc Roy Soc*, London, v 30, 1880, p 188-9 (prelim note), ibid, 450- 61. Reprinted or summarized: *Chem News*, London, 41, 1880, 106, 111; *Nature*, London, 21, 1880, 421-3 & 22, 255-7. Hannay was a Glasgow chemist and experimentalist, who believed he had synthesized diamond. See BANNISTER & LONSDALE, 1943; also comments by BRUTON, and DAVIES, G, in their respective monographs on diamond.

2726. HÄNNI, HENRY A The influence of the internal structure of pearls on Lauegrams. *J Gemm*, 18, 5, 1983, 286-400, 18 fig.

HÄNNI, H A, see SCHMETZER, K, et al

HANSFORD, SIDNEY HOWARD(1899-1973)

Brit businessman, arts connoisseur; b London; entered family firm of oriental merchants but left in 1935 to study oriental art in London U and China; stud jade carving Peking; in UK armed forces WW II; lecturer Chinese art, London U, later prof in Chinese Art & Archael; head Percival Foundation Chinese Art 1955-66.

2727. -----1950

Chinese | Jade Carving | By | S.Howard Hansford | Lecturer in Chinese Art and Archaeology at the | Courtald Institute of

Art, University of London | Published by Lund Humphries & Co. Ltd. | 1950. [London & Bradford]

8°: xi, 145, [3]p + 16 bound-in glossy f bearing 70 photos; 12 text fig(map); col front pl on glossy f tip-in. Pale greenish-blue cloth, gold lett cover & spine; endp maps. Col dj. 24.7 x 18.4 cm(9 3/4 x 7 1/4 in). Cut. JSL.

Cont: dedic; front; tp; publ data; tab cont & ackn; pref; dynasties; 5 chs; biblio(p 125-39, 147 entries); index; blank p; pls tp; blank p; pls.

One of the classics of modern jade literature and much referred to in later works. The first chapter provides useful information on jade nomenclature, comments on the literature of jade, especially that of the Chinese, and discusses the problems associated with the dating of jades. The second chapter treats the several mineral species customarily labeled jade, provides mineralogical data on same, the methods of distinction, derivation of the names, and discourses on the meaning of the Chinese term yü, which Hansford shows applied rather generally to any stone material which resembles jadeite or nephrite. The third chapter treats Chinese sources of supply, beginning with early mentions in the literature in which the mines, quarries, alluvial deposits, and the like, have supplied jade to Chinese carving centers. The last two chapters describe in minute detail, again with references to Chinese and other literature, the lapidary treatment of jade, discussing the tools, abrasive and polishing agents, and the methods, step-by-step, by which the rough masses are brought to finished carvings. Chapter five also supplies brief remarks on jade carving methods employed by Precolumbians of Mesoamerica and the Maoris of New Zealand. Although the discussions of carving could have been improved by use of more sketches their lack is mitigated to some extent by several excellent photographs ln the plates section showing various steps and equipment used by modern Chinese carvers working with traditional means. Other plates show thin sections of jade and a variety of carved objects displaying several types of carving. The endpaper maps show places associated with jade in Eastern and Central Asia. The bibliography is large and valuable, with many of the works therein given full description and comment, and on that score alone, being one of the most valuable features of the work. It is in this chapter that Berthold Laufer's *Jade*, 1912, receives strong and recurring criticism from Hansford, the index giving no less than 19 references to this and other works of Laufer, with most comments unfavorable. Shortly after publication, the demand for the present book so exceeded expectations that a second printing was issued in the same year. Because of the practical aspects of this work, based on the author's careful, personal studies in China, it remains in demand and is now difficult to find. Numerous reviews: *Oriental Art*, 3, 41, 1950; A Salmony, *Artibus Asiae*, 13, 4, 1950, 303-5; W.P.Yetts, *J Roy Asiat Soc*, Oct 1950, 196; R S Jenyns, *Oriental Arts*, ns, 15, 1969, 66-8; B Gray, *Burlington Mag*, 93, 1951, 270; etc. See also G M Born, 154.

2728. -----1954 A glossary of Chinese art and archaeology. Not seen.

2729. -----1961, 2nd edit, reprinted 1972

[8 ideographs] | A Glossary | Of | Chinese Art And | Archaeology | By | S.Howard Hansford | [orn] | The China Society | London | 1972

"Second edition revised 1961... reprinted 1972" "China Society Sinological Series No. 4."

8°: [2 blank] f, the first is the pastedown + xi, [1 blank], 104 p + [4 blank]f, the last the pastedown; numerous ideographs in text, 112 line drawings on both sides of p 89-96. Dk blue cloth, white title on cover & spine; yellow dj, flap resume, other soc publs. 21.9 x 15.9 cm(8 5/8 x 6 1/4 in)" Cut. ISBN 0 85409 812 7. JSL.

Cont: 2 blank f; series tp; tp; publ data; prefs; pls list; tab cont; drawings index; drawings; index; 4 blank f.

A handbook of technical terms for metal objects, gems, gemstones, stone sculptures, paintings, ceramics, lacquer, ivory, wood, textiles, etc. The chapter on gems and gemstones, p 20-30, embraces precious and ornamental stones, jades, jade colors, and lapidary terms. P 96 depicts some types of ritual and other jades. Handy list of characters, definitions, & sounds.

2730. -----1964 Jade and jade carving in the Ch'ing dynasty. *Trans Oriental Ceramic Soc*, London, 35, 1963-64, 1964, p 29-40. Reprint, JSL. Valuable historical essay on problems associated with acquisition of raw nephrite in the 18th century. Hansford provides a history of troubles between the Chinese and the inhabitants of the jade country until the time in the 18th century when rebellions were put down and the land made part of the Chinese empire (Sinkiang), after which systematic "fishing" and quarrying of jade under the aegis of local Chinese officials permitted large quantities of raw jade to be transported to China. Gives an excellent account of the recovery of jade, quoting from an old Chinese work by Ch'i-shih-i, plus other accounts of the commerce and the history of conflicts between China and Burma. The latter were eventually resolved and smoothed the way for transport of large quantities of jadeite into China. Hansford also explains how Siberian nephrite came to China, the first western observer to note the jade being French engineer J P Alibert, but Hansford believes that the jade was not regularly exported to China until 1850 or somewhat later. Remarks are also provided on other materials used by Chinese carvers and carving technique, with a supplementary note by Harry M Garner. Comment: G M Born, 156.

2731. -----1968

Chinese | Carved Jades | by | S.Howard Hansford | Faber And Faber | 24 Russell Square | London [1968]

8°: 131 p; col front glossy pl tip-in + 7 other tip-in pls; 96 b&w photos of 48 glossy f bound-in at end; 6 fig. Blue-green cloth, red spine panel with gold rules & lett. Plasticized col dj with col photo of carving; resume. 24.7 x 15.5 cm(9 3/4 x 6 1/8 in). Cut. 5 guineas.

Cont: 1/2tp; other bks in series "The Arts of the East;" tp; publ data; dedic; tab cont; ill list; ackn; pref; dynasties; 7 chs; biblio (p112-20, 127 entries); pronunciation guide; index to Chinese terms; general index;pls.

This scholarly and carefully researched work may be considered an extension of his *Chinese Jade Carving*, 1950, and not a new version as is sometimes thought. To be most useful, however, both should be consulted together in order to grasp fully the author's theses and to bring into perspective the considerable fund of new information accumulated on jade in the interim. The extended introductory chapter reviews progress in jade investigations in respect to mineralogy of jades, sources, and

archeology of finds. The second chapter deals specifically with mineralogy and the properties of nephrite and jadeite as well as related materials and substitutes. New sources are described although most attention is paid to classic Asiatic deposits with a particularly useful account of the literature that bears upon the antiquity of the several jades, the trade in them, their mining, etc. The third chapter reviews improvements in jade carving throughout the ages, and includes remarks on tools, accessories, and abrasive & polishing agents. Some mention is made of modern hardstone carving in China and HongKong. Chapters four and five treat broadly the purpose and significance of designs as shown in carvings, from the Neolithic period through Ch'ing; it is valuable for its clear exposition of certain mysterious forms, at least from the author's viewpoint. Chapter six describes recent archeological investigations in China and how the findings affect past views on the significance of jades in the culture and rituals of the Chinese. The bibliography is large and useful but lacks numerous modern reports on recently discovered and important sources of jades. With his earlier work, an invaluable reference. Rev *J Gemm*, 11, 3, 1968, 95; *Min Mag*, 37, 286, 1969, 311; *Artibus Asiae*, 31, 1969, 220-2. Comment: G M Born, 153.

2732. -----1968(?), USA edit

Chinese | Carved Jades |...| New York Graphic Society Ltd. | Greenwich, Connecticut [nd,ca 1968]

Identical except for title & publ data; LC 68-11278. $16.50. Rev *G & G*, 13, 1, 1969, 37-8.

2733. -----1969

Jade | Essence of hills and streams | The Von Oertzen Collection | Of Chinese And Indian Jades | S.Howard Hansford | Professor Emeritus of Chinese Art and Archaeology | in the University of London | Purnell And Sons (S.A.) Pty Limited Cape Town · Johannesburg · London [1969]

A column of Chinese ideographs appears to left of title. Copies bought in England bear label of the distributor, Kegan Paul, Trench, Trubner & Company, London, pasted to foot of title.

8°: [4], 220 p; 8 col glossy pls, cut out & mounted; ca 400 fig & map. Pale grayish-green cloth, gold Chinese ideographs in vertical row on right of cover; gold lett spine. Pale grayish-green endp. Black dj with col photo; green & white lett; col photo back cover, resume, vitas of Oertzen and Hansford. 28 x 21.7 cm(11 x 8 1/2 in). Cut. £ 12/10/-. JSL.

Cont: 1/2tp; front; tp; publ data; tab cont; quote; pref; pronunciation guide; map; dynasties; text; catalog; index; biblio(p 220, 21 entries).

In this handsome, scholarly work, primarily a catalog of the Von Oertzen collection in South Africa, the strong interest of the author in materials and techniques is apparent in the good summary given in the text: jades, colors, prehistory, jades from the New World, sources, objects made from jade, motifs, carvings in other hardstones, and Indian jades. The catalog is divided into seven sections according to period, of which there are six of the Chinese jades, and one of Indian & Persian jades. Very many objects are shown in the photographs, which, on the whole, are slightly blurred though the color plates are sharper. Catalog entries include type object, dimensions, description, and use. Some of the photographs of jade carvers at work are taken from Hansford's *Chinese Jade Carving*. Rev J M Hartman, *Artibus Asiae*, 24, 2/3, 1972, 247-9; *G & G*, 13, 5, 1970, 171; comment by G M Born, 158-9.

Baron Klaus D von Oertzen, emigrated to South Africa from Germany in 1935, pursuing a career as an industrialist; Baroness v Oertzen, grad of Munich U in commerce & law; diplomas in Chinese at Chinese Language School, Peking and l'Université Aurore, Shanghai; MA in anthropology Witwatersrand U. Collection formed mainly since 1954 during course of extensive travels by the von Oertzens.

2734. HANSMANN, LISELOTTE & KRISS-RETTENBECK, LENZ

Amulett | und | Talisman | [to right:] Liselotte Hansmann | und | Lenz Kriss-Rettenbeck | [below, center:] Erscheinungsform und Geschichte | Verlag Georg D.W.Callwey München [1966]

Cementb: 270 p, 844 ill(many on glossy paper, some of tinted paper) + 11 ill in front matter. Black unfin cloth, gold orns on cover, gold lett spine. Brownish pictorial endp. Col dj, coral photo, resume, other bks. 28 x 25 cm (11 x 9 3/4 in). Cut. Cloth, DM 86.-. Plain slipcase. JSL.

Cont: 1/2tp; credit; tp; publ data & vignette; tab cont & vignettes; ill captions; 7 text parts; append & title; abbrev list; ackn; biblio(p 252-60, ca 640 entries); index. Correction slip at p 221.

Outstanding work on amulets & talismans, and certainly the best to appear since Kunz's works on lore; covers entire field from antiquity to the present, but most emphasis upon 15th to 17th century objects. The book opens with a short summary of previous views on the subject and a history, followed by remarks on gemstones by Hansmann, p 17-54, in which references are made to ordinary stones as well as gemstones. Another part on objects made from animal and human materials is of interest to the gemologist because the discussion includes horn, ivory, bezoars, pearls and nacre. References to jewels and gemstones are not lacking elsewhere ln the text but inasmuch as the authors attempt to describe all of the materials ever used in the manufacture of amulets and talismans, discussions of mineral materials are necessarily shortened and lack the richer detail available in the works of Kunz, Budge, Evans, Kozminsky, Pavitt and others. The entire book is lavishly illustrated with b&w and colored photographs of older illustrations, actual objects, paintings, etc, and provides the best visual record of the many kinds of objects used as amulets and talismans. Altogether a handsome well-made book except for the lamentable use of cemented sheets instead of sewing.

2735.-----1977, 2nd edit

Liselotte Hansmann | Lenz Kriss-Rettenbeck | Amulett und | Talisman | Erscheinungsform und Geschichte | Verlag Georg D.W.Callwey München [1977]

Cementb: 444 p; ca 1,000 ill(in text & also on many glossy f bound-in and counted in pag; some photos in col). Black paper over bds, gold orns on cover, gold spine title. Black dj, col photo front cover; flap resume. 20.8 x 19.7 cm(8 1/4 x 7 3/4 in). Cut. ISBN 3 7667 0409 5. DM 78.- JSL.

P[4]: "The present volume is a new edition... due to technical reasons, it was not possible to arrange the text and illustrations in the original order."

Cont: 1/2tp; tp; publ data & vignette; tab cont; text; append(abbrev, picture credits); biblio(p 392-411); index; captions.

A less elegant and obviously "forced" production which takes the original generously spaced format and severely compresses it, with the result that there is loss of sharpness in text and illustrations, and obvious difficulties in matching illustrations to appropriate text.

2736. HANUŠ, F O moldavitech cili vltavinech z Cech a Moravy. *Rozpravy Ceske Akademie Ved a Umění*, Praha, třída II, ročnik 37, číslo 24, 1928, 1-83. Engl transl: Washington, D.C., NASA TT F-iii. H Brown, *Bibliogr Meteorites*, 1953, 420. On Czechoslovakian moldavites.

2737. HÄPKE L Der Bernstein im nordwestlichen Deutschland. *Abhandl Naturwiss Vereins Bremen*, 4, 1875, 525-50, map; Nachtrag zu den Bernsteinfunden, ibid, 15, 4, 1901, 307-10. Not seen.

2738. HARADA, Z Beiträge zur Kenntnis der optischen und chemischen Eigenschaften des Danburits von Obira, Japan. *Zs Krist*, 79, 1931, 349-66, figs. Not seen. Also: Ueber die optischen Daten des Danburits von Scopi, Schweiz. *J Sci Hokkaido Imper U*, ser 4, 2, 1933, 169-75, fig. JSL. Small facetable colorless crystals of danburite described.

2739. HARBECK, WILHELM

Ädelstenar | Halvädelstenar | Syntetiska stenar | Pärlor | [to left in column:] N°...4 | 10-12-1942 | Tillägnat | [dotted rule] | av: | [author's facsimile signature; and to right on same levels:] | av | Wilhelm Harbeck | Stockholm [title from cover, at top, a woman's hand holding a gem]

Edgestapled: typescript facsimile: [1], 70, [1]f, printed recto only; 14 fig, 15 glossy col pls; 1 photo on 1 glossy pl. Stiff, tan wrap. 29.6 x 20.9 cm(11 5/8 x 8 1/4 in). Cut. Only 300 copies printed. JSL.

Cont; print note; text; note; pl.

Privately-published monograph on gemology meant to edify jewelers and treating in straightforward manner the principal information on gemstones, synthetics, and pearls, but with most space devoted to the diamond. Aside from the gemological information, the most important feature is the colored plates which were originally published by the Idar-Oberstein, Germany Chamber of Commerce, and issued in their publicity portfolio *Das Ist Idar-Oberstein, 2000 Jahre Edelsteinkultur*, which see under IDAR-OBERSTEIN. The complete set of plates, 15 in color, and one in black-and-white, are incorporated in the present work and greatly enhance its value inasmuch as the plates, all of superb quality, are now very difficult to find.

HARBOTTLE, MICHAEL NEALE(1917-)

Brit Army officer; educ Marlborough Coll, thence to Roy Military Coll, Sandhurst; commissioned 1937; career in army of 31 yrs; ret as Brigadier 1968; to Sierra Leone 1969, leaving 1970.

2740. -----1976

The | Knaves | Of Diamonds | By | Michael Harbottle | [logo] | London | Seeley Service & Co [title in double-rule frane; 1976]

16°: blank f + [10], 155, [3 blank]p + blank f, the blanks integral with first & last gatherings and serving as flyleaves. Sketch map, 8 photos on 2 glossy bound-in f. Vermilion cloth-type paper over bds; gold lett spine. Col dj, resume, vita. 21.5 x 13.8 cm(8 1/2 x 5 3/8 in). Cut. £ 5.50. ISBN 0 85422 122 0. JSL.

Cont: blank f; 1/2tp; other bks of author; tp; publ data; dedic; author note; ill list; sketch map; 11 chs; 3 blank p; blank f.

The author, appointed Chief Security Officer to Sierra Leone Selection Trust, tells the story of the country's alluvial diamonds, how they are mined, the security problems, and toward the end of the account, the theft of one and one-half millions of pounds sterling of diamonds entrusted to his care. He was accused of negligence and expelled from the country. Valuable for its first-hand account of Sierra Leone diamond mining, which information is not available elsewhere.

HARBOTTLE, see WILLIAMS, A F

2741. HARDCASTLE, H The origin of australites. Plastic sweepings of a meteorite. *New Zealand J Sci*, Dunedin, 8, 1926, 65-75, figs. Not seen.

2742. HARDER, HERMANN Qualitätsverbesserung von Edelsteinen, insbesondere von Korunden, durch Wärmebehandlung ("Brennen"). *Der Aufschluss*, 33, 1982, 213-26, 4 ill(2 col), 2 tab, 14 ref. Improving color in corundums by heating.

2743. -----1983 Qualitäten und Schönheitskriterien bei Edelopalen. Ibid,34, 1983, 121-33, 4 ill(3 col), tab, 10 ref. Criteria for evaluating precious opals.

2744. HARDINGE, Sir CHARLES EDMUND, Baronet(1878-)

Jade | Fact And Fable | with lists of reported finds of jadestone and of | prehistoric objects of worked jade | By Sir Charles Hardinge, Bt. | [taper rule] | Published for | The Gulbenkian Museum | School Of Oriental Studies | University Of Durham | By Luzac & Co., Ltd. | London: 1961

8°: viii, 67, [1 blank]p. Pale green unfin cloth-type paper over bds; black title on cover & spine. 21.7 x 13.9 cm(8 1/2 x 5 1/2 in). Cut. LC 62-50288. 10s. JSL.

Cont: 1/2tp; tp; publ data; tab cont; fwd; pref; text; list; biblio (p 62-7, 88 entries); blank p.

In captivating style, Hardinge, a zealous collector of jades, writes about what he learned of jade mineralogy and places where various jades have been found as alluvial pebbles, in situ, or in artifacts. Topics: history of jade, jade in America, jade in medicine, derivation of jade terms, carving, false jades, occupying about half the text, the remainder usefully listing verified sources. Rev B W Anderson, *J Gemm*, 8, 6, 1962, 237-40, "all those who are interested in jade... will want to read and own this unpretentious but important little book. It contains more true substance than many of the larger, lavishly illustrated tomes which have been published on this fascinating subject." Comment: G M Born, 160.

2745. HARDINGE, REX South African Cinderella. A trek through ex-German West Africa. London: 1937. 8°, 348 p, 20 pls. "Many references to diamond." Not seen.

2746. HARDT, HERBERT Der Bernstein, seine Entstehung und seine Verwendung. 2. Auflage. "Die Neue Brehm-Bücherei Nr.128." Wittenberg: 1954. Brochure of 43 p, 21 ill. Not seen; ref in G R v Bock, 175.

2747. -----1954

Herbert Hardt | Schöne | edle | Steine | Verlag Neues Leben | 1954 [Berlin; col vignette under title]

8°: 81, [1], [1 blank], [1]p; 6 tip-in glossy col pls; 18 fig, ch orns. Pale gray paper over bds, decorated with gray scrollwork, and overprinted in maroon(title); maroon cloth spine, covered completely with gold scrollwork. Black dj, col ill & pale gray scrollwork, orange lett; resume, other bks. Tan endp. 23.9 x 17 cm(9 3/8 x 6 3/4 in). Cut. "I. Auflage. 1-15 Tausend." LC 54-32206. JSL.

Cont: 1/2tp; tp; tab cont; fwd; text; gloss; blank p; publ data.

A simply-written general introduction to gems and gemology but marred by frequent interjections of blatant Communist propaganda and diatribes against the West and its capitalistic practises. The text, in six parts, treats definitions, cutting, strass and imitation gem materials, pricing structure (with a tirade against the De Beers cartel), descriptions of gemstones, again marred by comments on "useful" gemstones as compared to those that are merely decorative, ornamental stones, organic stones, and a conclusion which adds nothing to the main text. The text is followed by a glossary of terms in gemology. The color plates, sketchily executed in watercolors, are nevertheless faithful to the originals and attractively depict cut and rough gemstones. Rev Lap J, 16, 1, 1962, 150-3.

2748. HARDY, ROBERT WILLIAM HALE(d 1871) Travels in the interior of Mexico, in 1825, 1826, 1827, & 1828. London: Henry Colburn and Richard Bentley, 1829. 8°: xiii, [1], 540, [4]p; front fold map; music, 7 pls. 24 cm. Not seen, in *Hill Collection of Pacific Voyages*, 1974, 137, "Hardy came to Mexico... as commissioner for the General Pearl and Coral Fishery Association of London," that is, he investigated the shores of Baja California and the pearl fishery in the Gulf of California on behalf of his parent firm.

2749. HARGER, HAROLD S The diamond pipes and fissures of South Africa. *Trans Geol Soc South Africa,* 8, 1905, 110-34. JSL. Describes diamondiferous pipes and other intrusive bodies, types, geology & mineralogy, eclogites, pyroxenites, associates of the diamond, origin of kimberlite and genesis of diamond.

2750. -----1909 The occurrence of diamonds in Dwyka conglomerate and amygdaloidal lavas; and the origin of Vaal River diamonds. Ibid; 12, 1909, 139-58, Pls XVI- XVII(4 photos). Not seen.

2751. HARGREAVES, T S General information with regard to the gold, diamond, and forest-industries of British Guiana. Georgetown, 1903. vi, 25 p + Append I, p i-xxxvi, Append II, p i-xix. Not seen.

2752. HARPENDING, ASBURY(1840-1923) & WILKINS, JAMES H

The | Great Diamond Hoax | And | Other Stirring Incidents | In The Life Of | Asbury Harpending | [orn] | Edited By | James H. Wilkins | [orn] | Copyright by | A. Harpending, 1913 | [orn] | The James H.Barry Co. | San Francisco. [1915; see note below]

16°: 283, [2], [3 blank]p (first 3 p also blank); 26 portr photos in text, that of Harpending is front; family crest. Pale blue cloth, gold title with rayed diamond on cover in ruled frame; gold title & rules on spine. Pale blue dj, with title, resume, & price on front; spine title. 20 x 14.2 cm 7 7/8 x 5 1/2 in). Cut. $1.50. JSL. LC A16-583.

Cont: 3 blank p; front; tp; crest; dedic; pref; 38 chs; photo; 3 blank p.

According to Glen Dawson in his foreword to the 1958 reprint below,"the contents were first published in installments in the San Francisco *Bulletin* in daily issues from September 13 to October 28, 1913, the articles being arranged for publication by a special writer for the Bulletin, James Hepburn Wilkins." Elsewhere, Dawson notes that the book was published in 1915 despite the copyright date on the title, and that "although the James H.Barry Company is listed as publisher, without doubt Harpending himself paid the printing bill." Further, "Asbury Harpending was unsuccessful as a publisher, and not long after the publication... he sold the remainder, some 1,200 copies, to Harold Holmes, well-known California bookseller, for five cents a copy." The text covers Harpending's career from early youth in Kentucky to his travels West in search of adventure in Mexico and California. The major part of the book is devoted to explanations of his part in the audacious swindle which involved "salting" some ground in a remote desert area, said to be in Arizona, but now known to be in Wyoming, with diamonds and an improbable mixture of other precious stones, and persuading investors to yield up enormous sums of money to exploit the "deposit." See T A Rickard's "The Great Diamond Hoax," Ch 17, 380-96, in his *A History of American Mining*, 1932.

2753. -----1958, reprinted.

The | Great | Diamond | Hoax | and Other Stirring Incidents | in thc Life of | Asbury | Harpending | Edited by James H.Wilkins | with a Foreword by | Glen Dawson | Norman: University of Oklahoma Press [1958; "The Western Frontier Library"]

8°: xix, [1 blank], 211, [1 blank]p; 8 photos in text. Mottled blue paper over bds; black spine label, gold lett, rules. Col dj, resume, other press bks. 19 x 12.4 cm(7 1/2 x 4 7/8 in). LC 58-6853. Cut. $2.00. JSL.

Cont: ser tp; 1/2tp; tp; publ data; dedic; fwd; tab cont; ill list; text; bk list; blank p.

Mr Dawson is proprietor of an antiquarian bookshop in Los Angeles, a historian of the West and publisher of historical books and reprints of Western Americana.

2754. HARPER, NORMAN

An Introduction | to | Gemstones | By | Norman Harper | F.R.G.S., F.G.A. | Illustrated By | Jean Rice | F.G.A. | [orn rule] | City Of Birmingham | Museum And Art Gallery [1955]

Edgestapled: 49, [1]p; glossy photo front pl(counted in pag); 20 fig, tab. Stiff col glossy wrap, cover title & col gems. 23.5 x 15.3 cm(9 1/4 x 6 in). Cut. 2s. 6d. JSL.

Cont: front; tp; pref; text; tab; biblio(p 49, 7 entries); print note.

"This Short Guide has been written for the occasion of an Exhibition of Gemstones during October, 1955." However, it is

not a guide inasmuch as it leads to none of the exhibits nor explains them, but rather is a very brief gemological treatise that describes some important gemstones and gives a tabular summary of properties. The best portion of the text explains the properties of gemstones and how the instruments used to examine them are constructed and employed. Rev R Webster, *J Gemm*, 5, 5, 1956, 270-2.

HARPOCRATION, see KIRANUS, 1685

HARRIS, ARTHUR TREVENNING (1894-)

B Grahamstown, Cape Province, South Afr; MD Edinburg U 1919; practise in Africa to 1928, thence to USA same yr; resident Sherman Oaks, Calif.

2755. -----1956

Stones of Fire | [double rule] | by | Arthur Trevenning Harris | [orns] Pageant Press, Inc. | New York [1956]

16°: [2 blank], [9], [1 blank], 353, [3 blank]p. Black cloth, gold spine title. Black dj with col crystals on cover, resume, vita, author portr. 20.1 x 13.4 cm(7 7/8 x 5 1/4 in). Cut. LC 56-12712. $4.00. JSL.

Cont: blank f; 1/2tp; tp; publ data; dedic; quot; text tp; 15 chs; 3 blank p.

Despite its being fiction, actually a novel of love and deception, and detective work in uncovering an illicit diamond buying ring, the background information is authentic. In the telling, the author imparts much incidental and worthwhile information on the lives and labors of miners and on the diamond and diamond industry in South Africa.

2756. HARRIS, DAVID(1852-)

Pioneer, Soldier | And Politician | Summaried Memoirs | Of | Colonel Sir David Harris | K.C.M.G., V.D. | (Chevalier of the Royal Crown of Italy) | With a Foreword by | General Rt.Hon.J.C.Smuts | P.C., C.H., K.C. | London | Sampson Low, Marston & Co., Ltd. [nd, ca 192-?]

8°: xiv, 306 p; front portr pl tip-in + 28 photos on 15 f tip-ins. Black cloth, gold spine title. 21.5 x 13.9 cm(8 1/2 x 5 1/2 in). Cut. JSL.

Cont: 1/2tp; pl; tp; publ data; pref; fwd; tab cont; ill list; 10 chs; index.

Cousin to Barnett Barnato, Harris left England at an early age to try his luck in South Africa where he eventually spent nearly 60 years of his life. He was familiar with most of the important figures involved in the industrial development and politics of South Africa and thus provides in this memoir valuable background information on the beginning and steady growth of the diamond mining industry. References to diamonds and mining are scattered throughout the text but concentrated in chapters two and three, pages 39-91.

2756A. HARRIS, FLORENCE E & TROUGHT, MARY E Diamonds. [Chapter in:] *US Bu Mines Mineral Trade Notes*, 39, 1, Jul 1954, 37-48, 5 fig(maps). JSL. The major part devoted to diamond mines & mining in French Equatorial Africa, with local geology and maps.

2757. HARRIS, J F Summary of the geology of Tanganyika. Part IV: economic geology. *Tanganyika Geol Survey Dept Mem* 1, Dar Es Salaam, 1961, 8°: [9], 143 p, index on pale tan paper centerstapled, 7 p, inserted in back cover pocket; fold statistical chart; fold bar-graph, fold translucent-paper overlay index map of localities, 81.5 x 74.5 cm (32 x 29 1/2in), in pocket, part col. Green printed wrap, cover title. 24.7 x 17 cm(9 3/4 x 6 3/4 in). Cut. Shs 12/50. JSL. Includes among the economic minerals beryl, diamond, garnet, meerschaum, rock crystal, plus a general review of gemstones on p 123. Under corundum, p 52, is mentioned the handsome ruby corundum in bright green zoisite-amphibole rock.

2758. HARRIS, JOHN RICHARD

Deutsche Akademie Der Wissenschaften Zu Berlin | Institut Für Orientforschung | Veröffentlichung Nr.54 | [rule] | J.R.Harris | Lexicographical Studies | In Ancient Egyptian Materials | [logo] | [rule] | Akademie-Verlag. Berlin | 1961

4°: 262, [5], [1 blank]p. Pale grayish-green wrap, title & adverts on covers. 30 x 20.5 cm(11 7/8 x 8 1/8 in). Cut. LC 64-54637.

Cont; tp; publ data; dedic; ackn; tab cont; note; introd; text; appends; addenda; abbrev list(biblio p 236-52, ca 450 entries); Indexes; unpubl texts of Egyptian hieroglyphics; blank p.

Harris tackles the problem of correct meanings for certain ancient Egyptian terms for materials, noting that errors in Lucas' *Ancient Egyptian Materials*, which see, are considered to be the most serious defect in that work. He discusses the problem at considerable length in the introductory and remarks upon what other authorities have said on the same materials described by Lucas. The text begins with a general discussion of Egyptian terms and the problems associated with their interpretation, passing on to specific terms in metallurgy, building and ornamental stones, miscellaneous stones used in vases and statuary, semiprecious stones, pigments, other minerals, alum, salt, natron, earths, and giving terms which may represent other mineral substances. Gemstones, called by Harris "semiprecious," are treated in Ch 5, 95-140, with many being given their Egyptian phonetic equivalents and discussed in detail, with comparisons to views of other authorities who have defined same. As a conclusion to this interesting and useful chapter, Harris states his conviction that the stones most highly prized by the Egyptians and identifiable with certainty are lapis lazuli, turquoise, red jasper, carnelian, green feldspar, and perhaps another term that may refer to faience and glass. Harris suggests that most other gemstones were unknown or rarely used. An appendix contains material on amulets and the gemstones used in their manufacture, also corrections of views concerning gemstones as assigned to certain deities as well as the significance of certain gemstone colors.

2759. HARRIS, J S An introduction to the study of personal ornaments of precious, semiprecious and imitation stones used throughout Biblical history. *The Annual*, Leeds University Oriental Society, 4, 1962-63, 49-83. Not seen.

HARRIS, R J, see SCOTT, D C, et al

2760. HARRIS, SUSAN

Gems And | Minerals | By Susan Harris | An Easy-Read Fact Book | Franklin Watts | New York / London / Toronto / Sydney / 1980

8°: Edgesewn: [2 blank], 48, [2 blank] p; 46 col photos, 8 b&w photos, 3 col drawings. Col paper over bds; col photo

rough diamonds on both covers, col lett; spine title. 20.9 x 16.7 cm(8 1/4 x 6 1/2 in). Cut. LC 79-18661; ISBN 0-531-03241-8. JSL.

Cont: blank f; 1/2tp; front; tp; publ data; text; index; blank f.

Attractively designed and illustrated book for juveniles, describing in simple language the properties, etc of gems & minerals, the gemstones being treated mainly on pages 30 to 43.

HARRIS, T R, see LUCAS, A, 1962

HARRIS, THADDEUS MASON(1768-1842)

Amer pastor, librarian, writer; b Charlestown, MA 1768; grad Harvard Coll 1787; librarian Harvard 1791-3; pastor Congregational Church, Dorchester, retaining post till death; publ many sermons, popular works.

2761. -----1793 The natural history of the Bible: or, A description of all the beasts, birds, fishes, insects, reptiles, trees, plants, metals, precious stones, &c. mentioned in the sacred Scriptures. Collectcd from the best authorities, and alphabetically arranged. By Thaddeus M Harris... Boston, Printed by I Thomas and E T Andrews, 1793. xii, [13]-272 p; front. 18 1/2 cm. Not seen, from LC 6-5300. Reprints, Boston: 1820, 182l, 1824; for a modern reprint see below. Agassiz III, 191.

2762. -----1793 reprinted 1968 Provoker Press, St Catherines, Ontario. Title, frontispiece pl and dedication f reproduced in photo facsimile, otherwise "it was necessary to reset the type because the "f" was used instead of "s" in printing in those days and it made reading difficult and halting," and "this reprinting consists of 2000 volumes and this is number_____." Black plastic looseleaf binding: blank f + publ note leaf + front pl leaf + p [i]-xiv, 15-322 + [1]p text + [3 blank]p. Dk red stiff paper covers, cover title black. 21.5 x 13.5 cm(8 1/2 x 5 3/8 in). Cut. In places, where the original text incorporates Hebrew and Greek characters, these are now set in boldface but remainder is in modern style.

2763. -----1824, 1st London edit

The | Natural History | Of The | Bible; | Or, | A Description | Of All The | Quadrupeds, Birds, Fishes, Reptiles, And Insects, | Trees, Plants, Flowers, Gums, And Precious Stones, | Mentioned In | The Sacred Scriptures. | Collected From The Best Authorities, And Alphabetically Arranged, | By Thaddeus Mason Harris, D.D. | Of Dorchester, Massachusetts. | [rule] | "He spake of Trees, ... and of Fishes." [2 lines] | I Kings, iv. 33. | [double rule] | London: | Printed For Thomas Tegg, 73, Cheapside. | [rule] | 1824.

8°: [4], xxxii, 430 p. 22.8 x 14.3 cm(9 x 5 5/8 in). Uncut. JSL.

Cont: 1/2tp; tp; print data; pref; "Catalogue Of The Principal Authorities Quoted,..." (p xi-xiii, 53 entries); quotes on need for this work; three dissertations(Scripture nat hist, Adam naming animals, Mosaical distinction clean & unclean animals); dictionary; append(adds new entries); index of entries(with corresponding terms in Hebrew and Linnaean or scientific terminology); index of remarkable passages; list of Scripture passages particularly illustrated.

This remarkable and erudite work is nearly as valuable a source of reference as the day it was first issued. The text provides the English name of the object, substance, or organism being described, its Hebrew equivalent, and in some instances Arabic and Greek equivalents, the phonetic pronunciation, and the place in the Scriptures where reference is made to same. Some entries are brief but others prolonged where uncertainty or controversy exists as to identity. The gemstones treated are adamant(probably diamond), agate, alabaster, amber, amethyst, bdellium, beryl, carbuncle, chalcedony, chrysolite, chrysoprasus, coral, crystal, diamond, emerald, ivory, jacinth, jasper, ligure, marble, onyx, pearl, precious stones generally, ruby, sapphire, sardius, sardonyx, and topaz. A poem on Biblical gemstones appears in the appendix, p 415-6. An esteemed work; see in this connection the comments in Allibone 1, 791-2. Despite numerous printings and editions, this is not an easy work to find. Another London edition appeared in 1825; not seen.

2764. -----1825, Ger edit, Leipzig; not seen

2765. -----1833, new London edit

A | Dictionary | Of The | Natural History Of The Bible; | Or, | A Description | Of All The | Quadrupeds, Birds, Fishes, Reptiles, And Insects, | Trees, Plants, Flowers, Gums, And Precious Stones, | Mentioned In | The Sacred Scriptures. | Collected From The Best Authorities, And Alphabetically Arranged, | By Thaddeus Mason Harris, D.D. | [rule] | A New Edition: | With Corrections And Considerable Additions. | [wood engrav vignette of Noah] | London | Printed For T.T. and J.Tegg, No.73, Cheapside; | R.Griffin And Co. Glasgow, And J.Cumming, Dublin. | [rule] | 1833.

12°: [1]f adverts supplied + [7], [1 blank], xxiv, 350 p. Title vignette; many small wood engrav vignettes in text; wood engrv tailpc vignette. Purplish, moire cloth, printed spine label. 19.1 x 11.1 cm(7 1/2 x 4 3/8 in). Uncut. USGS GS 34-217. JSL.

Cont: advert; 1/2tp; tp; publ data; advert; text tp & part tab cont; pref; biblio(p vii-viii, 53 entries); quotes; three dissert; text; subject index; index of passages; vignette.

2766. HARRISON, EVELEEN

A Jeweled Crown | By | Eveleen Harrison | New York | Gospel Publishing House | D.T.Bass, Mgr. | Fifty-Four West Twenty-Second Street [1909; upper part of title framed in wreath & berry decoration with Imperial Crown of England in upper right corner; purplish-blue ink]

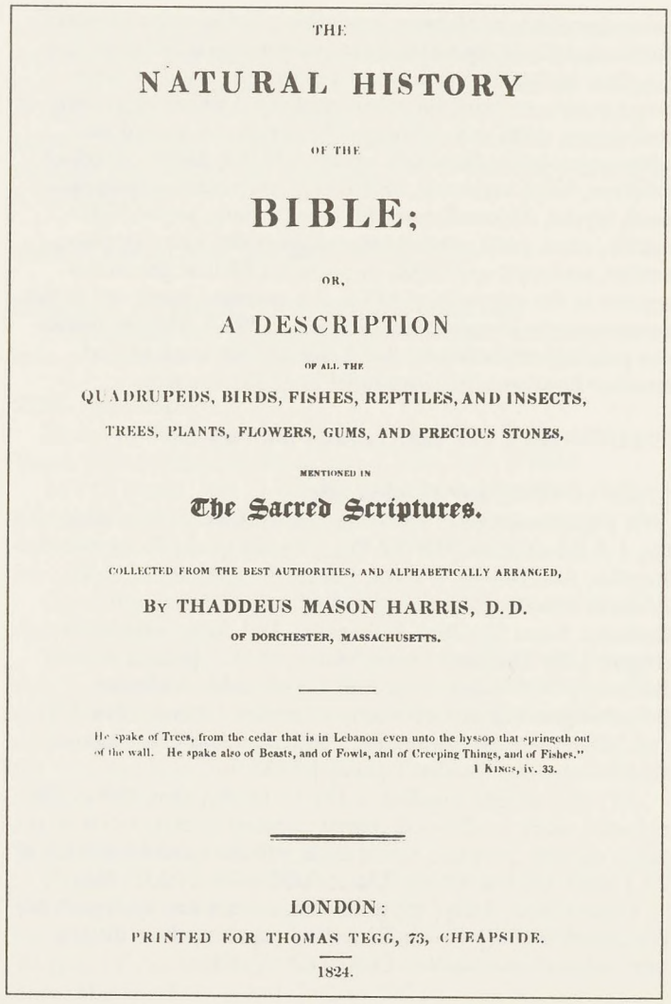
8°: 132 p; glossy front col pl tip-in + 12 others, all with tissues printed in red lett. Bright purplish-blue cloth, gold crown & title in single-rule frame on cover; gold spine title. 22.1 x 17.9 cm(8 3/4 x 7 in). Cut. Each page ornamented like titlep in same ink. JSL.

Cont: pl; tp; publ data; tab cont; pref; dedic; poem; text.

Twelve anecdotes on the birthstones as indicated on the High Priest's breastplate shown in the frontispiece plate. Each emphasizes Biblical allusions to same, with mottos, selections from poetry, and sentiments. The stones are garnet, amethyst, bloodstone, diamond, emerald, agate, turquoise, sardonyx, sapphire, beryl, topaz, and ruby, in chronological order, by months. Each stone is shown as a cut gem upon its own plate.

2767. HARSHAW, M RICHARD Jr

In search of | the scarce gem | Hiddenite | and the | Emeralds | of North Carolina | copyright © 1974 | M.Richard Harshaw, Jr. | Published by | The Hexagon Company | 474 Windsor Road | Asheville, N.C. 28804



THE

NATURAL HISTORY

OF THE

BIBLE;

OR,

A DESCRIPTION

OF ALL THE

QUADRUPEDS, BIRDS, FISHES, REPTILES, AND INSECTS,

TREES, PLANTS, FLOWERS, GUMS, AND PRECIOUS STONES,

MENTIONED IN

The Sacred Scriptures.

COLLECTED FROM THE BEST AUTHORITIES, AND ALPHABETICALLY ARRANGED,

By THADDEUS MASON HARRIS, D.D.

OF DORCHESTER, MASSACHUSETTS.

He spake of Trees, from the cedar that is in Lebanon even unto the hyssop that springeth out of the wall. He spake also of Beasts, and of Fowls, and of Creeping Things, and of Fishes."
1 Kings, iv. 33.

LONDON:

PRINTED FOR THOMAS TEGG, 73, CHEAPSIDE.

1824.

2763. Titlepage to a scarce treatise on all manner of natural history objects and creatures mentioned in the Bible, including gemstones

Centerstapled; 64 p; 29 vignettes(antique wood engravings), 9 col photos, doublep map & doublep cross-section, Col photo & lett front wrap; back wrap plain white, 21,6 x 14 cm(8 1/2 x 5 1/2 in. Cut.

Cont: tps publ data: & dedic; tab cont; prologue; text; epilogue; afterthought; other publ bks,

Provides a brief history of previous mining for hiddenite and emerald in the state, the current operations, properties of the minerals themselves, prospecting tips, anecdotes, and general information on the area and the countryside, The wood engravings while decorative are borrowed and are not germane; the color photographs depict scenes at the mines. The information is accurate and helpful but there are no references and not all persons credited who should have been.

2767A ----- 1974(?). The rubies of Cowee Valley(Franklin, N.C.) and other native gem and mineral locations around Macon County. Asheville: The Hexagon Company, 76 p. col ill. Not seen.

2768 ----- 1978, 2nd edit. New rev edit. 72 p, ill in b&w and col; price $2.75. Not seen. From rev *J Gemm*, 17, 3, 1980, 198.

2769 HART, GILBERT A compilation of gem names. *R&M*, 2, 4, 1927, 132-5, passim, ending with vol 6, no 2, 1931, 81-3, or 15 articles altogether, each circa several pages, One of the most complete hitherto made and based in part on W T Schaller's compilation in *USGS Mineral Resources* for 1927, which see, but also citing other sources; the number of species/varieties exceeds 1100.

2770. HARTIG, HERBERT

Herbert Hartig | Edelsteine | und | Mineralien | selbst schleifen | [rule] | Verlag Frech Stuttgart-Botnang [Germany, 1967]

8°: 62, [2 advert] p; 48 fig. Col wrap, photo of cut gems & stone slabs with black lett on cover; cut gem & resume back cover; glue advert inside back cover. 20.8 x 14.6 cm(8 1/4 x 5 3/4 in), Cut. DM 7.60. JSL.

Cont: series tp; tp; publ data; tab cont; introd; 15 chs; advert.

A good, elementary instruction book on how to teach one's self to cut gems, with much of the material based on Sinkankas' *Gem Cutting*, 1962, including several diagrams copied from same. The author, experienced in all phases of work, describes cabochon making (4 chapters), faceting (5 chapters), sawing, boring, and lapping. A large chapter provides property data on gemstones with processing information for 110 kinds. Another chapter describes equipment available for purchase in Germany while the last chapter recommends books and magazines and gives information on amateur clubs. Rev R Metz, *Der Aufschluss*, 19, 4, 1968, 103. Reprinted in 1959.

2771. -----1968, Dutch edit

Herbert Hartig | Stenen | en | mineralen | zelf slijpen | A.J.C. Strengholt's Uitgeversmaatschappij N.V. | Amsterdam [Holland, 1968]

P [4]: Strengholt's Handenarbeid-Reeks No.4.

Cementb: 71, [1 advert]p; 48 fig; same col ill on cover but back cover in blue with black lett. 21 x 14.6 cm(8 1/4 x 5 3/4 in). JSL.

2772. -----1974, enlarged edit, new title

Herbert Hartig | Edle Steine schleifen | Verlag Frech Stuttgart-Botnang [Germany, 1974]

8°: 120 p; front photo, 59 fig, 109 facet cutting diagrams. Col wrap, cut gems & slabs on cover, inside back cover adverts. 21 x 14.3 cm (8 1/4 x 5 5/8 in). Cut. DM 13.- ISBN 7724-0203-8. JSL.

Cont: ser tp; front; tp; publ data & tab cont; introd; 18 chs(Ch 18 is biblio).

Entirely reset with many changes in illustration arrangement but following original up to and including ch 14, after which there appears a chapter on designing facet cuts, a large chapter on how to facet specific cuts and using diagrams similar to those developed among amateurs in the United States.

2773. -----1972 Entwurf eigener Facettenschliffe. *Zs Dt Gemm Ges*, 21, 3, 1972, 160-74, 10 fig. Reviews traditional facet cut designs and offers new ones developed by himself.

HARTING, PIETER(1812-1885)

Prof chem & botany Franeker Athaeneum; prof Utrecht U; in 1885 apptd director Utrecht U Nat Hist Mus. Pogg I, 1021-3.

2774. -----1858

Description | D'Un | Diamant Remarquable, | Contenant | Des Cristaux, | Par | P.Harting. | [rule] | Publiée par l'Académie Royale des Sciences à Amsterdam. | [rule] | Avec Une Planche | [rule] | [orn rule] | Amsterdam, | C.G. van Der Post. | 1858.

4°: [1], [1 blank], 15, [1 blank]p; col pl bound-in. Pale gray print wrap, title in orn frame on cover; orn frame back cover. 28.9 x 23.7 cm (11 5/8 x 9 3/8 in). Cut. GS 34-009; BM(NH); JSL.

Separate: *Verhandelingen der Koninkl Akad van Wetenschappen*, Deel VI. A brilliant-cut Bahian diamond of 0.768 gm owned by an Amsterdan jeweler was examined microscopically and found to contain a large number of inclusions of square cross-section forming prisms and curved prisms. The shape, color, luster, and opacity, plus a chemical test upon an exposed inclusion convinced Harting that the mineral was pyrite. The attractive color plate shows a crown view of the gem, with its inclusions, while the surrounding vignettes depict inclusions greatly enlarged. This appears to be the first scientific determination of the identity of an inclusion in diamond.

2775. HARTLEY, DONALD W Diamond cutting by an amateur. *Lap J*, 21, 5, 1967, 637-41; 6, 750-9; 7, 866-74; 8, 1036-42; ill, with plans for making the cutting apparatus.

HARTMAN, JOAN MARCIA (1933-)

Native of Massachusetts, later resident New York City; writer, lecturer, and tchr oriental arts; American correspondent to *Oriental Art*, London.

2776. -----1968(?)

Chinese Jade | Through the Centuries | From Private And Museum Collections | October 24, 1968 - January 26, 1969 | Gallery Hours | [7 lines] | China House Gallery | The China Institute In America | 125 East 65th Street, New York, N.Y. 10021 [1968?]

Centerstapled: 48 p; 89 photos. Thick glossy paper wrap, col photo of jade horse on cover; list of committee members inside back cover. 26 x 17.7 cm(10 1/4 x 7 in).

Brief introduction of jade-carving art followed by the catalog. Comment G M Born, 1982, 165.

2777. -----1969

Joan M.Hartman | Chinese Jade | [orn] of [orn] | Five Centuries | Charles E.Tuttle Company: Publishers | Rutland · Vermont & Tokyo · Japan [1969]

4°: 172 p; 51 text photos (10 col & one serving as front). Green, rough woven silk, natural finish, with deeply blind-stamped Chinese design on front cover; gold lett spine. Pale orange-brown endp. Glossy paper dj, pale brown & red-brown panels, brown lett; 2 col photos; other publ bks; resume, vita. 24.9 x 18.8 cm(9 3/4 x 7 3/8 in). Cut. Stapled cdbd box with green title label, fe protector cdbd. $12.50. LC 69-12077. JSL.

Cont: 1/2tp; front caption; front; tp; publ data; dedic; tab cont; ill list(each p misnumbered by one); pref; ackn; dynasties; introd; 2 chs; concl; gloss; biblio(p 165-7, 57 entries); index.

Descriptions, appreciations, commentaries on jades of Ming and Ch'ing dynasties in American museums; the objects are principally containers but include figurines and ceremonial or symbolic pieces. Jades are examined from mineralogical and technological viewpoints to begin with, and then the pieces are described as to location, design & symbolism, dimensions, etc. The photographs are good to excellent quality, several in color are superb. The glossary, p 163-4, contains 29 terms, mostly Chinese. The bibliography lacks completely paginations for its entries. Rev *G & G*, 13, 2, 1969, p 71; comment G M Born, 164-5.

2778. -----1971(?)

Joan M.Hartman Indianapolis Museum of Art | Three Dynasties Of Jade [at upper right of title 13-lines poem + 3 lines for author & date; title in green]

p 43: "Richard L.Warrum, Editor and Designer... Speedway Press, Indianapolis, Indiana... in an edition of 1200 copies in March, 1971 by the Indianapolis Museum of Art."

Centerstapled, oblong: [3], 43, 12 blank]p; pagination begins verso of 2nd f; first & last f on translucent parchment-type paper, the first f bears title, last f blank. Front photo + 71 others. Tan-yellow thick glossy paper wrap, col photo jade mountain on cover with black lett; legend inside front cover; other surfaces blank. 17.7 x 25.5 cm(7 x 10 in). Cut. JSL.

Cont: tp; front; ackn; pref; introd; author note; catalog tp; chronology, notes; catalog of 71 pcs; colophon; blank f.

Introduced with a brief history of Chinese jade and the development of carving into the 19th century. Objects include animals, human figures, vessels, plaques, wands, mountains, etc, each depicted and described with dates and dimensions. Handsome catalog of unusual format. Comment G M Born, 169.

2779. -----1975

Ancient Chinese Jades | from the Buffalo Museum of Science | by Joan M.Hartman | April 3 through June 15, 1975 | Gallery Hours | Monday Through Friday 10-5 | Saturday 11-5 | Sunday 2-5 | The Gallery will be closed | all Holidays | China House Gallery · China Institute In America | 125 East 65th Street, New York, New York 10021 [1975]

8°: 80 p; 3 col & 121 b&w photos. White, glossy paper wrap, col photo of jade with title on cover. 23.6 x 20.3 cm(9 1/4 x 8 in). Cut. LC 75-1619.JSL.

Cont: tp; committee & publ data; board & sponsor lists with course info; previous catalogs published; pref & ackn; chronology; introd; notes; catalog; biblio(p 80, 14 entries).

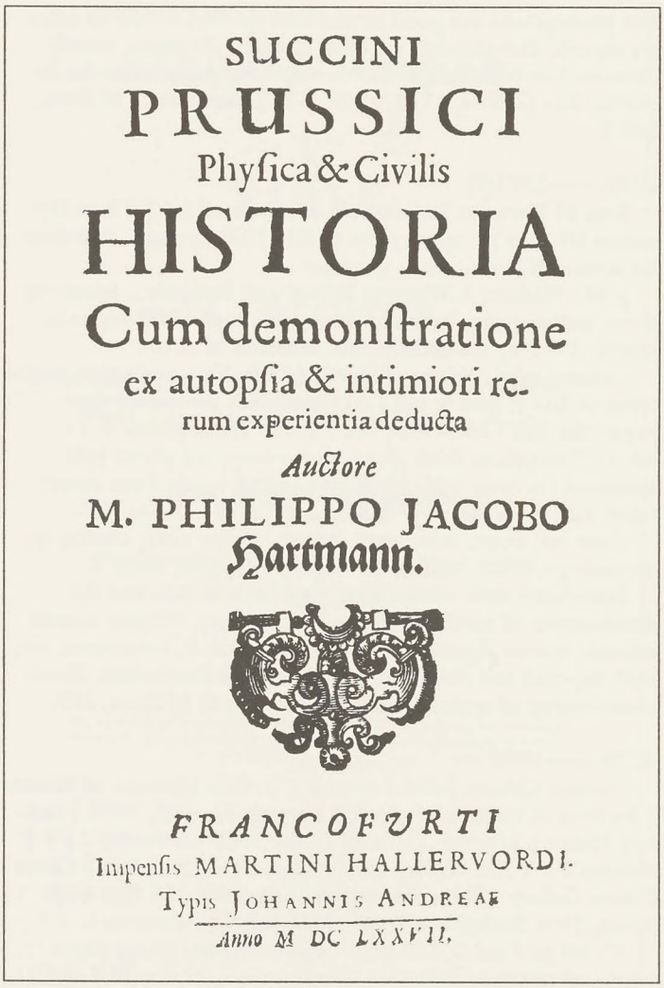
Handsome, well illustrated catalog of jades in Chauncey J Hamlin Collection. Remarks on formation of collection, materials in the pieces, artistry, etc, followed by the catalog proper briefly describing 118 pieces. Comment G M Born, 161-2; Yang 1483.

HARTMANN, CARL FRIEDRICH ALEXANDER(1796-1863)

Ger mining administrator, lawyer, writer; PhD jurisprudence Heidelberg U 1826; apptd Commissioner of Mines in Brunswick; 1841 to Berlin as technical writer in mining sciences, founded 2 periodicals; not noted for original work but a prolific writer and disseminator of information. DSB 6, 142-3.

2780. -----1854

Vollständiges Handbuch | der | Steinarbeiten | oder | die Kunst, alle Arten von Steinen,und Schie= | fer zu gewinnen und zu Bausteinen, Platten, | Dachschiefer, Tafeln, Mühlsteinen, Ornamen= | ten, Gefässen, | Geräthen, Röhren, Schmuck= | steinen u.s.w. mit der Hand und mit Ma= | schinen zu bearbeiten. | [rule] | Nebst einem Anhang | über | künstliche Steinmassen. | [rule] | Für | Stein= und Dach=, Griffel= und Tafelschiefer=Bruch=Besitzer, | Architecten, Steinmetzen,


SUCCINI
PRUSSICI
Physica & Civilis
HISTORIA
Cum demonstratione
ex autopsia & intimiori re-
rum experientia deducta
Auctore
M. PHILIPPO JACOBO
Hartmann.
FRANCOFURTI
Impensis MARTINI HALLERVORDI.
Typis JOHANNIS ANDREAE
Anno M DC LXXVII.

2783. In its time this work on Baltic amber was the authority

Maurer, Schieferdecker, Bild= | hauer, Steinschleifer, Juweliere u.s.w. | Von | Dr. Carl Hartman. | [rule] | Mit 6 lithographirten Querfolio=Tafeln. | [taper rule] | Weimar, 1854. | Verlag, Druck und Lithographie von B.Fr.Voigt.

8°: VII-XX p + 416, [4 advert]p; 6 fold litho pls. 19.4 x 10.5 cm(7 5/8 x 4 1/8 in). Severely cropped on fe. USGS Kunz Coll, GS 33-333. Pogg I, 1025.

Cont: tp; fwd; tab cont; introd; 3 part text; append; advert; pls.

An extremely comprehensive survey of the processes by which all manner of stones, including gemstones, are shaped into final form. The introduction, p XI, list references used by the author and includes several that were relied upon for gemological information and the treatment of gemstones. The first section of text dealing with raw materials seems largely taken from R Blum's *Lithurgik*, 1840, and includes 41 gem- and ornamental stones, treated in the present work on p 3-57. Massive ornamental stones as serpentine, are described under building stones. The second section describes quarrying practise while the third section takes up the working of stones and the polishing of such materials as alabaster, meerschaum, serpentine, marble, fluorite, agate and others. The third chapter in this section, p 352-91, describes the tools, machines, accessories, abrasives, and polishing agents, and the methods for lapidary treatment of faceted, cabochon, and engraved gems the last being given a substantial number of pages. Plate VI, illustrates the topics of this chapter and shows a series of cut-gem styles and design details of a gem engraver's lathe with accessories. The appendix contains remarks on glass gem imitations. As may be gathered from the very wide scope, not much specific detail can be supplied for many of the operations although the remarks on gem engraving are better than most similar accounts given in books that pretend to be authoritative in this subject.

2781. HARTMANN, KARL & BINNEWIES, BERND

Edelsteine | Erlesene Schmuck- und Edelsteine | in Farbe | Die Aufnahmen machte Karl Hartmann | Den Text verfasste Bernd Binnewies | Die Edelsteine ausgewählt und | zur Verfügung gestellt hat | Eckehard Julius Petsch jr., Idar-Oberstein | [logo] | Kosmos · Gesellschaft der Naturfreunde | Franckh'sche Verlagshandlung · Stuttgart [1975; series "Bunte Kosmos Taschen Führer"]

8°: 71, [1 advert]p; 96 col photos, 11 fig. Stiff, plasticized paper wrap, col photo on cover with title; back cover advert, resume, vitas. 19.4 x 13.2 cm(7 5/8 x 5 1/8 in). Cut. ISBN 3-440-03819-X. JSL.

Cont: ser tp; another ser tp; tp; ackn & publ data; tab cont; text; index; advert.

Elementary guide to the principal gemstones, ornamental gemstones, many massive types, and some rarities, all illustrated in cut form, sometimes accompanied by rough. About half the booklet is taken up by the photographs with explanations and descriptions on facing pages. The text begins with a few remarks on gem identification and properties, then descriptions, and briefly remarks upon curious lore and gem cutting, the last illustrated with photographs of workers in Idar-Oberstein, Germany lapidary shops. While the photographs are of good quality some specimens of stones selected for portrayal are poor quality.

2782. HARTMANN, MELCHIOR PHILIPPUS Dissertatio inaug.de succino, ejusque summa in medicina efficacia. Lugduni Batavorum, 1710, 4°: 28 p. Not seen, listed in Banks Catalog.

HARTMANN, PHILIPP JACOB, or JAKOB(1648-1707)

B Stralsund; stud Königsberg U; MD at Valence, Fr; at Königsberg U prof hist & medicine; wrote works on anatomy, physiology, other subjects. Pogg I, 1024; *Biogr Univ* 19, 464-5.

2783. -----1677

Succini | Prussici | Physica & Civilis | Historia | Cum demonstratione | ex autopsia & intimiori re- | rum experientia deducta | Auctore | M. Philippo Jacobo | Hartmann. | [orn] | Francofurti | Impensis Maryini Hallervordi. | Typis Johannis Andreae. | [rule] | Anno M DC LXXXVII. [Frankfurt, 1677]

8°: 291 p; A^7, B-S^8, T^3; 3 fold engrav pls; woodcut head- & tailpcs. 15.8 x 9 cm(6 1/4 x 3 5/8 in). Cropped. GS 17-280; Ward & Carozzi 1012; DeGolyer Coll Okla U; JSL;Agassiz III, 196.

Cont: pl; tp; dedic; pref; laud; Bk 1(7 chs); append; Bk 2(5 chs); 2 append("corallaries"); pls.

In its time, the best and most thorough work yet to appear on amber. The first book discusses amber and its occurrences as

they were known to the ancients according to their writings, then describes occurrences and details of the deposits in Prussia and the amber fishery and amber mining, characteristics and rough forms of amber, the local inhabitants of the Amber Coast, or the "Sudauer," their speech, customs, and the laws that relate to their amber-fishing activities, and the trade in amber. There are also descriptions of the working of amber, its colors and qualities, its uses, the manufacture of artistic as well as utilitarian objects out of amber, and the manufacture of amber varnish. The appendix is a short treatise on Prussian amber written by a certain Simon Grunow, quoted in German but annotated in Latin. The second book takes up many other topics but is mainly remarkable for its examination of the amber-origin problem, citing the opinions of both older and even ancient authorities as well as contemporaries in this regard. It is here that Hartmann treats the scientific aspects of amber most fully, noting its physical and chemical properties, medicinal virtues, and the resemblance of amber to mineral bitumen, as well as the significance of certain mineral associates of amber in the deposits that he examined. He explains the views of his predecessors on origin, dismisses them, then advances his own theory that amber formed as an oily fluid in cavities in fossilized wood, congealing and taking its shape from the recesses in which it formed. The fluid itself was derived from heated vapors emanating underground and rising through surficial formations to condense in the cooler, near-surface region.

For much of the above I am indebted to the comments of J F John in his *Naturgeschichte des Succins*, 1816, I, p 60 ff, which see. Johns thought highly of Hartmann's treatise for he writes "in respect to completeness, thoroughness and erudition, it approached in modern times what Agricola had earlier provided, and not only surpassed earlier works on amber, but vied for a high place in esteem with later works." G C Williamson, *Book of Amber*, 1932, p 109, credits Hartmann as being "the earliest author to deal in anything like satisfactory fashion with the origin of Succinite" and that "he... took infinite pains to obtain satisfactory information respecting Amber, and several times he visited portions of the coast of Prussia... and many places on the shores of the Baltic Sea." Also Williamson, ibid, 110, states that Hartmann's treatise was "the subject of a series of Discourses to the Royal Society in 1697, delivered by the celebrated Dr Robert Hooke(1635-1703." Presumably this is the account referred to in *The Philosophical Trans of the Roy Soc*, Abridged, vol 4, 1809, 347, with the original having appeared in *Trans*, vol 21, no 248, p 5. Of this work, Scudder, *Biblio Fossil Insects*, 65-6, states that Hartmann specifically referred to insect inclusions in amber and endeavored to account for them.

2784. -----1699 Succincta succini prussici historia et demonstratio. 4° Berolini. 1699, pp (8) 48. Not seen; from Scudder, ibid, 66. BM(NH) Catalog gives pag as 4°: 48 p. Scudder, ibid, "mentions in general terms the different sorts of insects known to be found in amber... a very full abstract in English, under the title: An account of amber, appears in Phil.trans.abr., 2: 473-493. 4°. London. 1749." Scudder also states that "according to Boehmer (4:469) the separate edition was accompanied by six plates, but they do not exist in the two copies I have seen; the eight preliminary pages do not appear in the Philosophical Transactions." Gatterer, II, 153-4.Agassiz III, 195. Böhmer, IV, 1, 470.


Der

aufgefundene Eridanus

oder

neue Aufſchlüſſe

über

den Urſprung,

die Zeit der Entſtehung, das Vaterland

und

die Geſchichte des Bernſteins

nach griechiſchen und römiſchen Schriftſtellern

von

D. Johann Gottfried Haſſe,

Conſiſtorial-Rath und Profeſſor zu Königsberg.

Riga,

bey Johann Friedrich Hartknoch

1796.

2796. Where did amber come from in Ancient Times? here answered by Hasse who believed he had located the mythical river Eridanus that flowed through the Amber Land

2785. -----1699, London edit

Succincta | Succini Prussici | Historia | Et | Demonstratio. | [rule] | Auctore | Philipp Jacobo Hartmann, | Phil. & Med.D. Professore | Medicinae Extraordinario, Hi- | storiarum Ordinario, S.R.I. | Naturae Curiosorum Collega. | [double rule] | Londini: | Impensis S.Smith & B.Walford, Regiae | Societatis Typographorum, ad Insignia | Principis in Coemeterio D.Pauli. 1699.

4°: [4], 36 p; pi^2, B-E^4, F^2. 20.4 x 16.3 cm(8 x 6 3/8 in). Cropped. JSL

Cont: tp; dedic; pref; six sections(each with 4 to 6 short chs).

As the title states, this is a condensation of the author's earlier work on amber, the sections treat (1) places in the world where amber was produced or said to come from, (2) the matrix of amber and the deposits in which found, (3) the raw amber of Prussia and its inclusions, (4) properties and characteristics of amber, (5) chemical preparations made from amber and their medicinal uses and values, and (6) amber gathering and mining, law and regulations, and trade in amber.

2786. HARTOG, VICTOR Petrographic note on the diamond-bearing peridotite of Kimberley, South Africa. *Econ Geol*, 4, 1909, 438-53, figs 73-5. JSL. Examined 60 specimens from various levels of De Beers mine, Vooruitsigt farm, and gives character of rock enclosing pipe, mineral character peridotites examined in thin-section. A bibliography of the diamond fields of South Africa by A A Julien follows to p 469.

2787. HARTWELL, J W, and others, commodity specialists, US Bureau of Mines, Washington, D C, wrote annual articles on gemstones, each about 12 pages, for inclusion in *US Bureau of Mines Minerals Yearbook*, 1955-62.

2788. HARTWIG, GEORG

Die Unterwelt | mit ihren | Schätzen und Wundern. | [rule] | Eine | für | Gebildete aller Stände | von | Dr.G.Hartwig, | Verfasser von "Das Leben des Meeres", "Die Inseln des grossen Oceans" | "Der hohe Norden", "Die Tropenwelt". | Mit Illustrationen. | [taper rule] | Wiesbaden. | C.W.Kreidel's Verlag. | 1863 | [to left:] Berlin. | F.Schneider & Comp. | [to right:] Wien. | C.Gerold's Sohn.

8°; XII, 474 p; front tinted litho pl + 2 others(p 241, 272) tip-ins; 16 [recte, 15] text fig(no 15 omitted) with one unnumb fig(Fingal's Cave, p 159). 21.5 x 14.2 cm(8 1/2 x 5 1/2 in). Cropped. JSL.

Cont: pl; tp; fwd & note; tab cont; 36 chs.

Gemstones in Ch 35, 429-48, and stone & slate in Ch 36, 449-74. See English edit below for description of contents. Interesting plates: line lithographs overprinted with shaded tints from top to bottom.

2789. -----1971, Engl trans

The | Subterranean World. | By | Dr.George Hartwig, | Author Of | 'The Sea And Its Living Wonders,' 'The Tropical World,' 'The Polar World,' |And 'The Harmonies Of Nature.' | With Three Maps And Numerous Engravings On Wood. | London: | Longmans, Green, And Co. | 1871.

8°: xix, 522 p + [2], 24 p of bk advert; front wood engrav pl tip-in, 7 others & 3 tinted maps tipped-in; 69 wood engravs in text. Dk brown cloth, orn blind frame enclosing rect gold vignette of miners on front cover; gold lett, rules, & fossil turtle on spine; blind frame back cover. Brown, dull finish endp. 22.2 x 14.3 cm(8 3/4 x 5 5/8 in). Te uncut; fe untrimmed. 10s 6d.

Cont: 1/2tp; publ data; front; tp; pref; tab cont; ill list; 39 chs; index; advert. LC 17-4461.

Popular style description of underground natural wonders and the role of man in exploring and exploiting same. Topics include crustal formation, paleontology, volcanoes, waters, earthquakes, springs & geysers, landslips, caves, underground life, ice caves, catacombs, tunnels, mines, ore deposits, coal, asphalt, salt, sulfur, quarries, etc. Among these are chapters on amber, 36, p 449-57, celebrated quarries and the ornamental rocks provided by them, 38, 464-76, and precious stones, 39, 477-500. None of the matter is weighty but seems rather to have been selected for its ability to arouse the interest of the reader and therefore verges on the sensational. However, the data, such as they are, are accurate. Quaint wood engravings.

2790. -----1875, 2nd edit. Not seen

2791. -----1875, 3rd edit

The | Subterranean World. |...| With Three Maps And Numerous Engravings On Wood. | Third Edition. |...| 1875. | All rights reserved.

8°: [2 blank], xxi, [1 blank], 522 p + [4], 28, [2]p bk advert; same ill. Bright red cloth, same orn. Pale brown, dull finish endp. 21.9 x 14.3 cm(8 5/8 x 5 5/8 in). Te uncut. JSL.

Cont: blank f; 1/2tp; reviews; pl; tp; print data; pref to 2nd edit; pref to lst edit; tab cont; ill list; same text; index; advert.

Essentially a reprint.

2792. -----1892, new edit

The | Subterranean World. |...| With Three Maps And Numerous Engravings On Wood. | New Edition | London: |...| 1892. | All rights reserved

8°: xxi, 522 p; same ill. Bright green cloth, elaborate gilt panel in upper half of front cover depicting flowers, leaves, etc, and below, author's facsimile signature in gold; orn lett & orn band in gold on spine; back cover plain. Reddish-brown dull finish endp. 22 x 14.5 cm(8 5/8 x 5 5/8 in). Teg; fe untrimmed. JSL.

Cont: 1/2tp; print data; pl; tp; prefs; tab cont; ill list; same text; index.

Essentially a reprint.

2793. -----1864, Danish edit

Underverdenen | med dens Skatte og Vidundere. | En Skildring | for Dannede af alle Staender. | Af | Dr.G.Hartwig, | Forfatter ar "Naturen og Menneskelivet i det høie Norden", "Livet i Havet", | "Øerne i det store Ocean" o.s.v. | Med Illustrationer i Tontryk. | [rule] | Kjøbenhavn. | P.G.Philipsens Forlag. | 1864.

8°: XII, 500 p; front litho pl + 5 others, all tinted green & tipped-in. Green cloth, elaborately blind-stamped frames, title & geyser scene in gold on cover; tropical scene with animals & lett in gold on spine; blind frame back cover. The basic cloth is vertically-patterned in rules. Marbled endp. Bound-in pale tan flyleaves. 20 x 12.8 cm(7 7/8 x 5 in). Cut. JSL.

Cont: pl; tp; publ data; tab cont; ill list; 36 chs.

Text drastically recast with considerable matter omitted and other data included; plates are not the same; no text wood engravings. Chapter on amber now Ch 34, 436-51, gemstones in Ch 35, 452-500; ch on quarries omitted.

2794. HARVEY, ANNE

Jewels | Anne Harvey | Illustrated by Philip Argent | The Leprechaun Library | published by | G.P.Putnam's Sons | New York [1981; first word of title enclosed in framed panel]

16°: [64]p includ flyleaves & endp; 14 col & 13 b&w ill. Col paper over bds; similar tan dj. Dull pink endp, patterned. 15 x 11.5 cm(6 x 4 1/2 in). Cut. LC 81-81026; ISBN 0 399 12663 5. $4.95. JSL.

Cont: endp; flyleaf; tp; poem; text; ackn; publ data; endpaper.

Curious lore of gemstones in a series of short essays: carnelian, sapphire, onyx, ruby, garnet, emerald, chrysolite, bloodstone, agate, amethyst, beryl, topaz, pearl, zodiacal gems, anniversary gems, also dreams & jewels, diamond, jewels & lovers, Aladdin and the jewel trees, Charlemagne's diamond, Madame Loisel's necklace, the Happy Prince, pearls of wisdom, jewels and thieves, Shakespeare and jewels, and the jewels of the hours. Pleasant reading although no attempt is made to mineralogically

identify the stones treated with the result that a few inaccuracies crept in. The illustrations are excellent and alternately colored and plain.

2795. HASCHMI Y Die griechischen Quellen des Steinbuches von Al-Beruni. *Annales Archéologiques Arabes Syriennes*, 15, 2, 1965, 21-56. Not seen.

HASSE, JOHANN GOTTFRIED(1759-1806)

B Weimar but eventually resided Königsberg, Prussia where he became prof theology at the univ & mbr of the ecclesiatical council of the city.

2796. -----1796

Der | aufgefundene Eridanus | oder | neue Aufschlüsse | über | den Ursprung, | die Zeit der Entstehung, das Vaterland | und | die Geschichte des Bernsteins | nach griechischen und römischen Schriftstellern | von | D.Johann Gottfried Hasse, | Consistorial=Rath und Professor zu Königsberg. | [orn rule] | Riga, | bey Johann Friedrich Hartknoch | 1796.

8°: [8], 200, [2]p. Pale gray paper-covered binder's bds. 22 x 12.8 cm(8 5/8 x 5 1/8 in). Unopened. JSL.

Cont: tp; pref; tab cont; introd; 9 chs; append; concl; errata.

A scholarly study of early Greek and Roman literature with the view of identifying the mythical river Eridanus, thought by the ancients to flow through the region producing amber. Hasse remarks on previous sttempts to unravel the mystery of amber's origin, and flatters himself that he is luckier than his predecessors because he finds in Ovid's *Metamorphoses*, Bk 2, V, 1-366, information, which, coupled with other knowledge he has uncovered, provides an explanation of the origin, time of formation, the native land, and the amber trade in antiquity. The first chapter, on the origin of amber, recounts the myth of Phaëthon as given by Ovid and concludes that it should be interpreted as an allegorical description of a major catastrophe that overtook Ethiopia, parts of the Near East and Europe, including the present Baltic region, resulting in extensive underground volcanic action ("Erdbrand") coupled with earthquakes and other effects that caused amber-bearing trees to burn and yield up their resin which hardened and was buried in floodwater alluvium. In the second chapter, the time of the catastrophe is fixed at about 2,000 BC. and coincides with the time when the Biblical cities of Sodom and Gomorrah were laid waste. The third chapter treats ancient amber names, the nature of amber as then known, and its uses. The "fatherland" or source of amber in antiquity is taken up in the next several chapters in which Hasse concludes that the Eridanus was a body of water none other than the Baltic Sea. In Ch 8, Hasse discusses errors in ancient writings and attempts to reconcile ancient views on the source of amber. Ch 9 treats the ancient amber trade. Finally, Hasse concludes that the source of ancient amber had to be in the Baltic region and that the hardened resin came from palms or date-palms. Hasse's monograph was one of the earliest to systematically investigate sources of amber used in Mediterranean cultures in antiquity and laid the groundwork for subsequent studies aimed at clarification of the amber problem. For an extended discussion of Hasse's studies, see J F Johns' *Naturgeschichte des Succins*, 1816, p 109-18.

2797. -----1799 Preussens Ansprüche, als Bernsteinland das Paradies der Alten und Urland des Menschheit gewesen zu seyn... Königsberg, 1799, 47 p, 8°. BM(NH); G R v Bock, p 170. Not seen.

HATCH, FREDERICK HENRY(1864-1932) & CORSTORPHINE, GEORGE STEWART(1868-1919)

F H Hatch obit *Mining Mag*, 47, 1932, 233-4; G S Corstorphine obits, Min Mag, 18, 1919, 393 & by J S Flett *Quart J Geol Soc London*, 11, 1920, 42-9, Pl 7.

2798. -----1905 A description of the big diamond recently found in the Premier Mine, Transvaal. *Geol Mag*, London, ns, decade 5, v 2, 170-2, 1905, with text fig & Pls 7,8(4 photo views of the stone). Also in print wrap offprint. First good description of the Cullinan diamond; gives place & circumstances of find, size, properties, surface features, etc. The substance of this article, and some of the photographs, appeared in other contemporary journals: "The Cullinan diamond," read 13th March 1905, Pls 6 & 7 in *Trans Geol Soc S Afr* 8, 1905, 26-7, also issued separately in printed wrap and including a folding line drawing of the actual stone outline on Pl 6 while Pl 7 gave 3 photos of the stone. Also in the United States as "The cullinan diamond. - A description of the big diamond recently found in the Premier mine, Transvaal," in *Ann Rpt Smithson Inst* for 1905, 1906, 211-3, 1 fig, 2 photo pls, with note "reprinted... from Geological Magazine..." LC S 15-1288.

2799. -----1905 The geology of South Africa. Not seen. Mendelssohn I, 695.

2800. -----1909, 2nd edit The geology of South Africa. Second edition. London: Macmillan And Co., 1909. 8°: xvi, 394 p; 92 text fig, fold col geol map tip-in; fold strata diagram tip-in; fold geol map tip-in. Green cloth, gilt. 21.8 x 14.6 cm(8 5/8 x 5 3/4 in). Cut. Ch 4, 266-85, devoted to diamond pipe deposits, their nature, and characteristics of the diamonds. The bibliography on p 347-79 contains many entries concerning diamonds and their deposits.

HATCH, F H, see POSEWITZ, T, 1892

2801. HATEM, SIMONE

Simone Hatem | Docteur ès sciences physiques | L'Empire | Des Perles | Et Des | Pierres Précieuses | "Inutiles mais irrem- | plaçables." | A. de Noailles. | Avec 78 illustrations et une carte dans le texte | et 103 illustrations hors texte | [logo] | Paris | Librairie Plon | Les Petits-Fils De Plon Et Nourrit | Imprimeurs-Éditeurs - 8, rue Garancière, 6e [1956]

8°: [2 blank], [5], [1 blank], 260, [3], [1 blank]p(ist blank f conjugate in 1st gathering; 2 f following titlef tipped-in); 103 photos on 36 bound-in glossy f; 78 fig. Thick glossy paper wrap, front cover pale tan with photo, white & tan lett; white spine & black lett; back cover resume in frame. 20.3 x 14.3 cm(8 x 5 5/8 in). Uncut. Fr 1200. LC 57-37118. JSL.

Cont: blank f; 1/2tp; tp; cover caption & publ data; dedic; text tp; 4 part text; biblio(p 243-45, 93 entries); tab of ill on pls; same for text ill; tab cont; print note; blank p; publ data; blank p.

A popular work on gems stressing the cultural aspects and curious lore and on the whole more like a selection of extracts from gem history which caught the author's interest rather than a systematic textbook presentation. There are four parts, but

only the first three are text, the last including the bibliography and illustration lists. In the first part the author examines the cultural role of gems throughout history with much attention paid to engraved gems, this last forming a rather full exposition of the subject and abundantly illustrated with photographs of famous gems. The second part is on pearl and provides some scientific information on the natural history of nacreous mollusks and how pearls develop in natural and imposed circumstances. A little over half of the third part discusses only four gemstones, namely diamond, emerald, ruby, and sapphire. Some scientific information is imparted but by far most space is devoted to the cultural aspects after these stones are cut into finished gems and set into jewelry. Pen-and-ink text sketches are sprinkled throughout the text and when depicting jeweled objects are fair representations but some, eg, depicting crystals, crystal structure, and the like, are carelessly and often inaccurately drawn, and cast doubt on the accuracy of all scientific information in the text, as meager as it is. The bibliography seems large but includes many entries which are not germane. However, the strength of this work lies in its examination of the cultural aspects of gemstones, and in this respect, it is worthy of study.

HATSOR, J S, see LEGRAND, J

HATT, ROBERT T, et al, see CRANBROOK INSTITUTE OF SCIENCE

HAUDICQUER or HAUDICQUIER DE BLANCOURT, JEAN(ca 1650-1704)

B Picardy, Fr; stud genealogy and publ several works on same; also stud chem & alchemy, and said to possess many "secrets" or recipes; accused & imprisoned for forging an ancient title to nobility. *Biogr Univ*, 66, 471-2.

2802. -----1697 De l'art de la verrerie... Paris: J.Jombert, 1697, 8 p, f, 602, [5]p, pls. 17 cm. LC 8-21181. Not seen.

2803. -----1699, Engl transl The art of glass. Shewing how to make all sorts of glass, crystal and enamel. Likewise the making of pearls, precious stones, china and looking-glasses. To which is added, the method of painting on glass and enameling. Also how to extract the colours from minerals, metals, herbs and flowers. A work containing many secrets and curiosities never before discovered. Illustrated with proper sculptures. Written originally in French, by Mr.H.Blancourt, and now first translated into English. With an appendix, containing exact instructions for making glass-eyes of all colours. London, Printed for Dan.Brown [etc.] 1699. 1 p, f, 355, [13]p, pls, 19cm. USGS Kunz Coll, GS 34-679. Not seen. Another ref gives: 8°, [16], 355, [13]p, 9 fullp engrav pls of furnaces, handling implements & tools, and a glass eye ... Wing H 1150; Duveen 281, Ferguson I, 367. Ferguson, *Book of Secrets*, I, 53, & IV, 41: "This work is largely a collection of receipts. It includes drawings of Furnaces." Duncan: *Biblio of Glass*, 5804. The appendix on making glass eyes was not included in the original French edition, which also did not include the section of gemstones, which, however, appears in the second French edition below.

2804. -----1718, 2nd Fr edit L'art de la verrerie... Nouvelle edition augmentée d'un traite de pierres précieuses. Paris: Claude Jombert, 1718. 8°: 2 vols, xii, 328, 6 pls; 255 p, 2 pls, 62, 12 p of publ catalog. Not seen, from Sims, Reed & Fogg, London, Cat 66, 9/84. Kress S 1473.

2805. HANS, GÜNTER Perlen, Gold und Edelsteine. Echter Schmuck - sein Wert, seine Schönheit. 200 p, 6 4-col pls, many text ill. 1966. DM 19.-. Not seen.

2806. HAUGHTON, S H The Late Tertiary and Recent deposits of the west coast of South Africa. *Trans Geol Soc S Afr*, 34, 1931, 19-58. Complete description of diamondiferous conglomerates. Not seen.

HAUSMANN, JOHANN FRIEDRICH LUDWIG (1782-1859)

Ger geol, mineralogist; b Hannover; educ Göttingen U. Pogg I, 1035-7.

2807. -----1858 VII.Ueber das Vorkommen verschiedener Kieselgebilde in Begleitung des Basaltes. *Studien des Göttingischen Vereins Bergmännischer Freunde*, 7, 2, 1858, 139-92. Describes and discusses various types of silica impregnations and formations, including replacement of organic materials as fossils and woods by silica, as associated with hydrothermal activity arising from emplacement of basalt. The silica may take cryptocrystalline forms as jasper and chalcedony or as opal.

HAÜY, RENÉ JUST, Abbé (1743-1822)

Celebrated Fr mineralogist, physicist, crystallographer; b Saint-Just, Picardy, Fr; educ Coll of Navarre, Paris; apptd prof Latin 1764; life-long interest in mineralogy arose after hearing lectures of Daubenton. Investigation calcite cleavage in 1781 led to first verifiable concepts of regularity of internal structure of crystals, laying foundation for science of crystallo graphy. Mbr Fr Acad Sci 1783; short imprisonment Fr Revol in 1792; appted by Convention in 1794 as Dir Sch of Mines & Prof Phsyics in the École Normale; prof mineral Mus Nat Hist, Paris, 1802. Prolific writer; his most important works are his treatise on mineralogy, 1801, an elementary treatise on physics, 1803, and his treatise on crystallography, 1822. Cuvier publ an éloge of Haüy which appeared in transl in *Ann Rept Smithson Inst* for 1860, 1861, 376-92. See also "Haüy Celebration," *New York Mineralogical Club Bull*, 2, 3, orig printed in *Amer Min*, 3, 6, 1918, 49-136, esp "The life and work," by G F Kunz, 61-89, in which Haüy's treatise on gem identification receives adequate attention. Extensive, complete biblio in *René-Just Haüy, 1743-1822*, Société Française de Minéralogie, Paris, Libraire Masson Et Cie, 1945, 348 p; see also A Lacroix biogr note in *Bull Soc Franc Min*, 67, 1944, 15-226. Pogg I, 1038-41; *R & M*, 55, 6, 1980, 251-2, portr.

2808. -----1787 Exposition raisonnée de la théorie de l'électricité et du magnetisme, d'après les principes de M.Aepinus... Paris, Chez la Veuve Desaint, 1787. 8°: xxvii, [5], 238 p, 4 engrav pls. Wheeler Gift Cat, 541; Ekelöf I, 44, "the present treatise... is based on Aepinus's theories. Haüy investigated, among other things, the effects of electrifying precious and semi-precious stones." Not seen; above from a bookseller's catalog of 1976.

2809. -----1804 Mémoire sur la tourmaline de Siberie. *Ann Mus Hist Nat*, Paris, 1804, vol 3, p 233-44. Not seen.

2810. -----1817 Sur l'usage des caractères physiques des minéraux, pour la distinction des pierres précieuses qui ont été taillées. *Mémoires du Museum d'Histoire Naturelles*, Paris, 3, 1817, 353-90. Also reprinted: USGS Kunz Coll, GS 34-682, p [1]-38, wrap, 27.2 x 21 cm(10 3/4 x 8 1/4 in). Uncut. The extremely important first announcement by Haüy of his systematized method for testing and identifying cut gems on the bases

of light phenomena, specific gravity, hardness, electrical properties, etc, with tables, and elaborated in his book of the same subject published in the same year as described below.

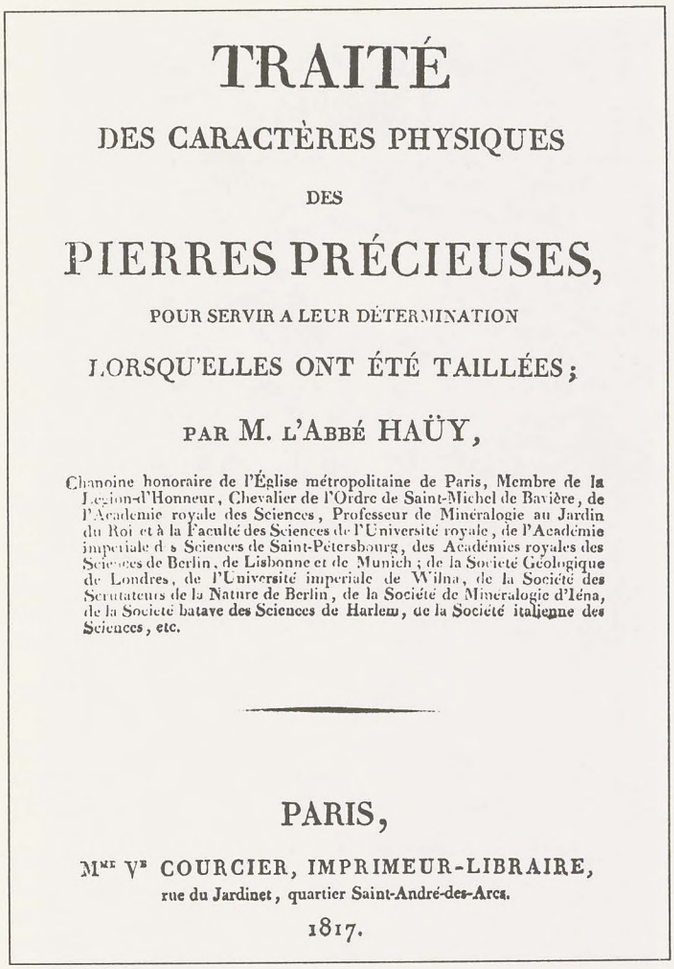
2811. -----1817

Traité | Des Caractères Physiques | Des | Pierres Précieuses, | Pour Servir A Leur Détermination | Lorsqu'elles Ont Été Taillées; | Par M.L'Abbé Haüy, | Chanoine honoraire de l'Église métropolitaine de Paris, Membre de la | Légion-d'Honneur, Chevalier de l'Ordre de Saint-Michel de Bavière, de | l'Académie royale des Sciences, Professeur de Minéralogie au Jardin | du Roi et à la Faculté des Sciences de l'Université royale, de l'Académie | Impériale des Sciences de Saint-Pétersbourg, des Académies royales des | Sciences de Berlin, de Lisbonne et de Munich; de la Société Géologique | de Londres, de l'Université impériale de Wilna, de la Société des | Scrutators de la Nature de Berlin, de la Société de Minérologie de'Iéna, | de la Société batave des Sciences de Harlem, de la Societe italienne des | Sciences, etc. | [tapered rule] | Paris, | MME V^E Courcier, Imprimeur-Libraire, | rue du Jardinet, quartier Saint-André-des-Arcs. | 1817.

8°: xxij, 253, [1 blank]p; pi^{8}, 1-17^{8}, 18^{2}; 3 engrav fold pls by Clouquet bound-in at end. 19.7 x 12.7 cm(7 3/4 x 5 in). Cropped. Originally in wrap. Ward & Carozzi 1026; JSL; Dewalque 240.

Cont: 1/2tp; print note; tp; index; introd; 3 parts; tab; blank p; pls.

Typically precise and detailed in his statements, Haüy here provides the first determinative gemology worthy of that name. The lengthy introduction discusses progress in mineralogy, especially in respect to the now outmoded idea that gemstones, by virtue of their superior hardness and resistance to traditional methods of chemical decomposition, were mineralogically in a class distinct from other species. Recent work in chemistry and crystallography clearly demonstrated that gemstones are no more than purer specimens of common species, citing the work of Klaproth in recognizing zirconium in zircon and of Vauquelin who found glucinum(beryllium) in beryl. The text begins with remarks on the juvenile science of crystallography as applied to classification of minerals, followed by brief crystallographic descriptions of the gemstones which occur in measurable crystals. Next follows a discussion of physical properties and how these may be determined. An appendix, p 186-235, describes a considerable number of gemstones, including some organics, with remarks on true identities and distinctive characteristics. The properties of gemstones are then handily summarized in tabular form to close the text. In brief, what Haüy accomplished here was to provide the first handbook for the practical determination of gemstone species by observing and/or measuring properties. However, this concept is by no means the first as previously remarked under Brisson's *Pesanteur Spécifique*, 1787, which see, who much earlier remarked that the identification of gemstone species should be possible on practically all of the properties that were used by Haüy. Brisson appears to be the first to conceive the method but Haüy was the first to apply it practically and systematically. The present work obviously filled a long-felt need because several translations appeared very soon after, as described below. A work of fundamental importance in the science of gemology and marking the transition from a purely descriptive method to accurate determination of properties and applying them to identification.



TRAITÉ

DES CARACTÈRES PHYSIQUES

DES

PIERRES PRÉCIEUSES,

POUR SERVIR A LEUR DÉTERMINATION

LORSQU'ELLES ONT ÉTÉ TAILLÉES;

PAR M. L'ABBÉ HAÜY,

Chanoine honoraire de l'Église métropolitaine de Paris, Membre de la Légion-d'Honneur, Chevalier de l'Ordre de Saint-Michel de Bavière, de l'Académie royale des Sciences, Professeur de Minéralogie au Jardin du Roi et à la Faculté des Sciences de l'Université royale, de l'Académie impériale des Sciences de Saint-Pétersbourg, des Académies royales des Sciences de Berlin, de Lisbonne et de Munich; de la Société Géologique de Londres, de l'Université impériale de Wilna, de la Société des Scrutateurs de la Nature de Berlin, de la Société de Minéralogie d'Iéna, de la Société batave des Sciences de Harlem, de la Société italienne des Sciences, etc.

PARIS,

MME V^E COURCIER, IMPRIMEUR-LIBRAIRE,
rue du Jardinet, quartier Saint-André-des-Arcs.

1817.

2811. Titlepage to the first formal treatise on scientific gemology, the basis of all others that propose identification through mineralogical properties

2812. -----1818, Ger transl

Ueber | den Gebrauch | physikalischer Kennzeichen | zur Bestimmung | geschnittener Edelsteine. | taper rule] | Von | Herrn Ritter Hauy [sic]. | Uebersetzt durch | Karl Cäsar Ritter von Leonhard. | [taper role] | Leipzig, 1818. | Bey Wilhelm Lauffer.

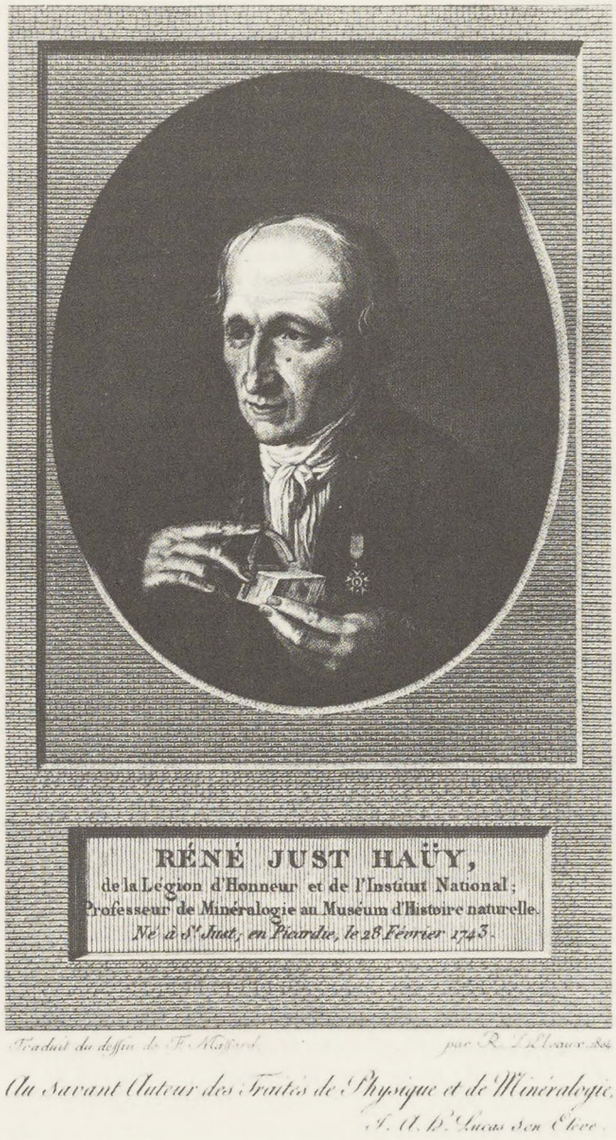
8°: [4], 51, [1 blank]p. Paleblue-gray wrap, title in orn frame on cover, woodcut of Greek temple in same frame back cover; advert inside covers. 21.2 x 13.4 cm(8 3/8 x 5 1/4 in). Uncut. USGS Kunz Coll, GS 34-412; JSL.

Cont: tp; transl note; text tp; text; tab; blank p.

Considerably shorter: omits crystallographic discussions and references to pl which are not reproduced here. K C v Leonhard(1779-1862). Very rare.

2813. -----1819, Ital transl

Trattato | Dei Caratteri Fisici | Delle | Pietre Preziose | Per Determinarle Quando Sieno Lavorate | Del Signor | Abate Haüy | Canonico onorario della Metropolitana di Parigi, Membro della |... [9 lines of mbrships, etc.] ... | Traduzione Con Note | Dell'Abate | Luigi Configliachi. | [taper rule] | Milano | Per Giovanni Pirotta | 1819.



2811. Portrait of René Just Haüy from an engraving in Jean André Henri Lucas(1780-1825) "Tableau methodique des especes Minerales, 1806-1813"

8°: XXXVI, 227, [1]p; 3 fold engrav pls bound-in. Reddish-orange print wrap, title in orn frame on cover; advert in same frame back cover; spine title, rules, orn. 22.2 x 14.8 cm(8 3/4 x 5 3/4 in). Uncut. USGS Kunz Coll, GS 33-214; JSL.

Cont: 1/2tp; tp; transl note; index; note on use of quote symbol; introd; text; tab; errata; pls.

Direct translation, many footnotes by translator; pls re-engrav by G Pezze. Comment by V DeMichele, *La Gemmologia*, Milano, 1, 2, 1975, 20-1.

2814. -----1825, extract, by Razumovsky

Distribution technique | des | Pierres précieuses, | avec | leurs caractères distinctifs, | tirée du | Traité des caractères physiques des pierres | précieuses | de l'Abbé Haüy, | avec | quelques additions et des remarques renfermant | quelques observations nouvelles; | par | Le C.G.R. | [taper rule] | Vienne, | de l'Imprimerie de Charles Gerold. | 1825.

8°: 31, [1 blank]p; 4 engrav pls tip-in. Wrap? 19.8 x 12.3 cm(7 3/4 x 4 7/8 in). Cropped. JSL.

Cont: tp; pref; tab; blank p; pls.

C G R = Comte Gregory Razumovsky, also Razoumovsky, etc, wealthy Russ nobleman; publ several works on mineralogy and geology; d 1837. He states "the table placed at the end... forms a concise... vade-mecum." Basically the table of gemstones vs properties but with additions in italics by Razumovsky which mainly expand on the electrical properties of certain stones, Rare.

2815. -----1883, Russ transl of Razumovsky Tekhnicheskoe raspredelenie dragotsennykh kamnei s otlichitelnymi priznakami ikh, izvlechennoe iz sochineniya abbata Gayu [= Haüy], s pribavleniyami i zamechaniyami po sobstvennym ego nablyudeniyam. Perevod s frants. St.Petersburg, 1883, 122 p. Not seen.

2816. -----1842 Classification der Edelsteine, mit Bemerkungen und Zusätzen vom Grafen Razoumowsky, von Sembnitsky, Wörth und Nefedjew. *Arbeiten der Mineralogischen Ges St Peterburg, - Trudy Mineralogichestva Obshchestva St Peterburg*, 2, 1842, 283-402. Not seen.

2817. HAVARD, HENRY(1838-1921)

Histoire | De | L'Orfèvrerie | Française | Par | Henry Havard | Inspecteur général des Beaux-Arts | [vignette] | Paris | Ancienne Maison Quantin | Librairies-Imprimeries Réunies | May & Motteroz, Directeurs | 7, rue Saint-Benoit. | 1896 [title in red & black; vignette in pale brown]

P[4]: "Il A Été Tiré De Ce Livre | Vingt Exemplaires Numérotes | Sur papier des manufactures impériales | Du Japon"

4°: [3 blank], [4], [1 blank], 472, [2], [2 blank]p; ca 360 text ill & ch orns; 30 pls(10 col) bound-in; ch heads & inits in vermilion. 33.4 x 24.7 cm(13 1/4 x 9 3/4 in). Thin card covers, overlaid with dk maroon glossy paper, gilt title, elaborate gilt frame with pictorial vignettes; similar spine; back cover overlaid with gilt paper. Heavy, semi-glossy paper, browning & embrittled. Col pl paper better quality. LC F-2443. JSL.

Cont: [3] blank p; other author bks; 1/2tp; limited edit note; tp; col pl I; text; pls list; chs list; vignette; blank f.

Large, elaborate history of goldsmithing and allied arts in France traced from antiquity to the present, and including characteristic pieces in early Gallic style, Merovingian & Carolingian pieces, and with much space devoted to works of the Middle Ages. Gemstones appear in many of the objects but are treated in chs 16 & 17, 355-96, on jewelry, and with remarks on early knowledge of gemstones, the esteem in which held, curious lore, history of diamond cutting, types of jewelry, and a little on the Regent diamond among other topics. Ordinary copies are poorly bound and few will be without looseness, broken stitching, crumpled edges, etc.

HAWES, G W, see GANNETT, HENRY

2818. HAWES, GEORGE W, with WRIGHT, ARTHUR W On liquid carbon dioxide in smoky quartz. *Amer J Sci*, 21, 1881, 203-9, 2 fig, [&, Wright:] On the gaseous substances contained in the smoky quartz of Branchville, Conn. Ibid, 209-16. JSL. Hawes studied & depicted behavior gas-liquid inclusions while Wright isolated and chemically analyzed the liquid.

2819. HAWLEY, HENRY

Henry Hawley | Fabergé and His Contemporaries | The India Early Minshall Collection | of The Cleveland Museum of Art | Published by The Cleveland Museum of Art [1967]

8°: [5], [1 blank], 139, [3 blank]p; 6 cut-out & mounted col pls(one is front) + centerfold col pl, all on glossy paper & includ in pag + 55 b&w photos. Pale blue unfin cloth, gold title spine. Pale brown dj, col photo on front with black lett; spine title; col photo back cover. 22.8 x 19.2 cm(9 x 7 1/2 in). Cut. JSL.

Cont: 1/2tp; pl; tp; trustee list & publ data; tab cont; introd; note on catalog; biblio(p 6, 5 entries); catalog tp; note on Fabergé's establ; catalog; 3 blank p.

Handsome, high quality production, well-illustrated and describing and depicting the 64 pieces in the Minshall Collection. Most are discussed in connection with the workmasters responsible for their manufacture although it should be noted that not all pieces are by Fabergé. There is a brief history of the collection, notes on the catalog itself, and upon hallmarks. Among the objects are Easter eggs, various vessels, boxes, several animal carvings, portraits, timepieces, and works attributed to other St Petersburg jewelers (p 89-107).

2820. HAYASHI MINAO Chūgoku kodai saigyoku zuigyoku [Ceremonial jade in ancient China]. *Tōhō Gakuhō*, no 40, Mar 1966, p 161-323. Not seen.

2821. HAYES, CAROLYN H

Pergemin | [double rule] | Perfumes · Incenses | Colors · Birth Stones | Their Occult Properties and Uses | [double rule] | Carolyn H. Hayes | [to left:] [rule] | Chicago | [rule] [in center, in a rectangular double-rule panel: a ram & the words "The | Aries Press"] | [to right:] [rule] | 1937 | [rule] [Entire title enclosed in double orn-rule frame, enclosing a single-rule frame]

Centerstapled: 64 p. Pale blue, creased heavy paper wrap, titlep reproduced on cover in pale green ink. 21.1 x 14 cm(8 3/8 x 5 1/2 in). JSL.

Cont: tp; publ data; dedic; tab cont; 6 chs.

P 38-64 treat the curious lore of gemstones but also such odd materials as ammonite or "snake stone," coral, jet, "loadstone," nacre and pearl. The author freely confesses mineralogical ignorance in several places, failing to confirm identity of ammonite which she classifies as possibly of "meteoric origin," and cat's eye as a kind of agate. The last page is a table of "correspondences," or relationships in the occult realm among the signs of the zodiac, planets, and birthstones, with a short table of the stones of the twelve apostles.

2822. HAYES, M H Among horses in South Africa. London: Everett, 1900, x, 231 p, ill. Chs 3 and 4 deal with Kimberley and diamonds. Not seen.

2823. HAYWARD, JAMES

To the Gem Pits, | Ratnapura, Ceylon. | [fleur-de-lis] | A Tale of a Royal Stone. | By James Hayward, | Late of Colombo, Ceylon. [no publ, no place; dtd Mar 1888]

Title from cover and within a central panel with smaller panels above and below bearing rows of fleur-de-lis. Beneath and outside the panelling: "Knight, Ventnor," dated "March, 1888" at end of text.

Centerstapled: 18, [2 blank]p; ch orn; orn inits. Very pale blue wrap. 18.7 x 12.2 cm(7 3/8 x 4 3/4 in). Cut. JSL.

Cont: "To the Gem Pits, Ratnapura, Ceylon," p 1-11; "A Tale of a Royal Stone," p 12-18; 2 blank p.

Apparently a privately-published pamphlet describing the author's visit to Ratnapura, the town, its inhabitants, and the gem trade, buying gems, and remarks on how they are cut. The second part is fiction telling how an enormous cat's-eye chrysoberyl gem (told by the gem itself), finds it way from its Ratnapura gem pit to its presentation to the Queen of England.

2824. HAZELTINE, ALICE ISABEL

[rule] | Below | The | Surface | [rule] | Compiled by | Alice Isabel Hazeltine | [logo] | Abingdon Press | New York · Nashville [1958]

16°: 223, [1 blank]p; 16 pen & ink text sketches. Green cloth, black spine labels, gilt lett; blind stamped round device on front cover. 22.8 x 15.3 cm(9 x 6 in). Cut. LC 58-7432. JSL.

Cont: 1/2tp; tp; publ data; fwd; tab cont; text tp; 8 chs; text tp; 9 chs; blank p.

In the first part, Ch 7, 77-89, "Men and diamond mines," by James Remington McCarthy, is reprinted from his *Fire in the Earth*, 1942. The second part contains in Ch 2, 126-38, "Mikimoto, the Pearl King," by Robert Eunson, reprinted from *The Pearl King*, 1956.

2825. HEADLEY, GEORGE W

The Headley Treasure | Of Bibelots And Boxes | With a Foreword and Notes by | George W.Headley | and an Introduction by | Marvin C.Ross | October House Inc · New York [1965]

8°: 92, [4 blank]p, tipped-on col front pl; 32 other tip-in col pls, 14 fig. Brownish-red unfin cloth, a narrow black horizontal band with gold lett & orn frame on cover & spine. 25.4 x 19.7 cm(10 x 7 3/4 in). Cut. High quality tan paper. In maroon paper-covered slipcase, with col pl & title pasted to outside. LC 65-29280. JSL.

Cont: 1/2tp; front; tp; publ data & caption; dedic; tab cont; quote; fwd; introd; ill tp; ill catalog; notes & sketches; 2 blank f.

Handsome production that consists largely of 32 color plates of jeweled objects designed by Headley and executed by several jewelers whose names are given in the plate captions. The captions also name the object, identify the materials and sub-assemblies used in construction, and give heights in inches. The frontispiece plate is a color photograph of a painting of Headley. The objects are of considerable interest to the gemologist because of the variety of gemstones used in faceted, cabochoned, or carved forms. Most of the pieces are assemblages of ornamental carvings, boxes, portions of antique objects of art, and combined with additional mountings by the jewelers commissioned to do the work. Sometimes they display incongruities as in Plate 20 where a Chinese coral goddess stands between two ivory pillars below an arch formed of an Art Deco pin from Cartier. Other examples in the collection rather suggest that Headley owns a large stock of precious odds and ends with which he tinkers until inspiration strikes. Notable items described in *R & M*, 53, 1, 1978, 28-31, 9 ill.

2826. HEAPS, WILLARD A

Birthstones | By Willard A.Heaps | Meredith Press/New York [1969]

16°: [5], 138 p. Dull red unfin cloth, silver lett spine. Col dj, zodiac circle with faceted gems on cover with title in red &

black; rhyme on back cover; resume, vita. 20.2 x 13.5 cm(8 x 5 3/8 in). Cut. $5.95. LC 78-75692 [sic]. JSL.

Cont: 1/2tp; other bks of author; tp; publ data; tab cont; blank p; text tp; 15 chs; biblio(p 126-7, 22 entries); index.

An interesting book on birthstones written in popular style, treating the lore of gemstones in general, the origins and siginificances of the several birthstones, with a chapter devoted to each of the so-called "officially accepted" birthstones, and modern ideas on the influence of the stone upon its wearer. Contains many anecdotes and bits of lore but errors crept in because of the author's lack of expertise in mineralogy.

2827.-----1971, London edit

Birthstones | And the Lore of Gemstones | Willard A.Heaps | Angus And Robertson [London, 1971]

8°: 141, [3 blank]p. Green cloth-type paper over bds, gold spine title. Col dj, col photo & title; resume & birthstone quiz. 19.8 x 12.8 cm (7 3/4 x 5 in). Cut. ISBN 0 207 95417 8. JSL.

Cont: 1/2tp; tp; publ data; tab cont; text; refs; index; 3 blank p.

Entirely reset and in many places rewritten to conform to British standards of weights & measures, terminology, etc. Rev *Austral Gemm*, 11, 4, 1971, 23-4; *Gems*, 3, 5, 1971, 45.

2828. HEATHER, P J Precious stones in Middle-English verse of the fourteenth century. *Folk-Lore, Trans Folk-Lore Soc London*, 42, 1931, 217-64, 345-404. Not seen. *Min Abstr* gives "quotations, with notes... from Chaucer and other authors of the period which are grouped under the headings: stones and nature, healing, magic, the individual, buildings, clothing, crowns and rings, and armor." But Sarton, *Introd Hist Sci*, 3, 1, 1947, 214, states "much of this concerns rather the second half of the century."

2829. HEATON, NOEL

Rubies | [rule] | Some Practical Hints | On The | Detection Of Artificial | And Imitation Stones | By | Noel Heaton, B.Sc., F.C.S. | [rule] | Published By | The Burma Ruby Mines Ltd. | Suffolk House, Laurence Pountney Hill, E.C. [London, nd, 1912]

8°: 15, [1 advert]p; 2 col ill(one is front), 6 text ill, 2 advert photos. Centerstapled. Dk red wrap, pink lett "Rubies" on cover & company name. 21.7 x 14.1 cm(8 1/2 x 5 1/2 in). Wrap overlaps text. BM(NH); JSL.

Issued to advertise the company's rubies but with useful information on natural and synthetic rubies and their distinction. To this end, the color illustrations depict natural ruby crystals and synthetic boules, and 6 figures of cut gems showing typical inclusions to be found in each type. The text also discusses gemological testing methods and instruments required, and pastes.

2830. -----1912 The production and identification of artificial precious stones. *Ann Rpt Smithson Inst* for 1911, 1912, 217-34, Pls 1-3, the last on 3 tip-in glossy f. Also offprinted, plus own tp, in green print wrap, 24.7 x 15.8 cm (9 3/4 x 6 1/4 in). Uncut. JSL. P 217 footnote: "Read before the Royal Society of Arts... Reprinted... from the Journal... No.3049, V01.59, Apr.28, 1911." Excellent general article, with identification methods.

HEBBE, J G, see MAWE, J, 1816, Paris

HEBENSTREIT, JOHANN ERNST (1702 or 1703-1757) & CHRIST, JOHANN FRIEDRICH(1700-1750)

J B H Ger physician, naturalist; b Neustadt an der Orla, Saxony; prof med Leipzig. Pogg I, 1042-3; *Biogr Univ* 19, 541-2. J F C Ger writer, poet; b Coburg; prof history Jena ca 1730; prof poetry Leipzig 1740.

2831. -----1743

Mvsevm | Richterianvm | Continens | Fossilia Animalia | Vegetabilia Mar. | Illvstrata | Iconibvs Et Commentariis | D.Io.Ernesti Hebenstreitii | Anat. Et Chirvrg.P.P.O. | Accedit | De Gemmis Scalptis | Antiqvis | Liber Singvlaris. | [engrav vignette] | Lipsiae | Excvdi Cvravit Casparvs Fritsch | MDCCXLIII. [Leipzig, 1743; title in red & black]

2°: 56, 384, [18], 34 p; $(a)^4$, (b)-$(n)^2$, A-Ddddd^2, (A)-$(N)^2$; doublef engrav pl(inter view of museum), engrav portr of Richter + 17 engrav pls bound-in; 15 engrav head- & tailpcs. Some copies have been recorded with the mineral/fossil pls handwatercolored & heightened in gold; it is not known if these were officially sponsored or merely colored by owners; see W.E.Wilson, "Hebenstreit's Museum Richterianum," *Min Rec*, 21, 5, 1990, 399-403, ill. 39.7 x 24.7 cm(15 5/8 x 9 3/4 in). Larger p sizes known. LC 6-7651; JSL; Ward & Carozzi 1033; Dewalque 2951; De Golyer Coll Okla U; Agassiz III, 206.

Cont: pl(museum); 1/2tp; tp; dedic; portr pl; pref; mineral classif; lauds; pl insertion instructions & errata; part 1 tp; text(parts 1 & 2); part 3 tp; text; part 4 tp; text; dactyliotheca tp; pref; notes; descript catalog ending with colophon & engrav vignette

Note: the short treatise on engraved gems is sometimes separately cataloged, possibly because it was meant to be issued separately:

" Mvsei | Richteriani | Dactyliotheca | Gemmas Scalptas | Opere Antiqvo | Plerasqve Complexa | Interprete | Ioh.Frider.Christo "

This treatise follows p 384 of the main work and contains three engraved plates of gems, finishing on p 34 with the colophon and vignette; for a fuller description, see CHRIST, J.F., 1743.

This large, complex work describes the splendid cabinet of natural curiosities gathered by Johann Christopher Richter(1689-1751), a wealthy merchant and city official of Leipzig and to which is appended the catalog of his collection of engraved gems. The opening essay, unsigned, but probably written by Hebenstreit, ranges widely over problems of nomenclature and classification of minerals, and cites numerous authorities whose works deal with this problem. As in following parts of the book, the text is given double-column, Latin verso, German recto, with the principal text describing specimens in the collection with greatest emphasis placed on ores and ore minerals of the Erzgebirge, arranged as follows: metal ores and minerals, semi-metal minerals(of arsenic, mercury, cobalt, etc), followed by natural resins and ambers, saline minerals, earths, medicinal minerals & preparations, silicates, quartz(jaspers, agates, amethyst, etc), marbles & ornamental stones, in which appears a section on gemstones, p 203-18, and various fossils and "figured" stones. The last part of the text deals with specimens from animate nature as shells, insects and plants. An outstanding feature of the work is the very high quality of the engraved plates and the specially engraved vignettes. The fine,

large doublepage frontispiece shows the interior of Richter's museum in Leipzig, in an allegorical frame, and engraved by C F Boetius. The portrait plate of Richter is engraved by Bernigeroth after A de Manjocki, and the text and plate engravings also by Boetius after C W Dietrich. The fidelity of the plates to their originals is remarkable and the specimens can be readily identified therefrom. For further details on this work and the persons involved see W.E.Wilson cited above.

2832. -----1747

De | Ordinibvs Gemmarvm | Verbis C .Plinii | Ex Eivs Natvralis Historiae Libr. XXXVII. | Ovi Totvs De Gemmis Est, | Disserens | Panegyrin Medicam | Lipsiae | D. XXVII Octobris Anni MDCCXLVII | Habendam | Indicit | D.Ioannes Ernestvs | Hebenstreit | Pathologiae Professor Pvblicvs Ordinarivs | Academiae Decemvir Maioris Principvm Collegii | Collegiatvs Et H.T. Praepositvs | Constitvtvs | Ad Hvnc Actvm | Procancellarivs. [Leipzig: Langenheim, 1747]1

4°: xvi p. 21 x 17 cm(8 1/4 x 6 3/4 in). Cut.

Cont: tp; blank p; text; colophon. BM(NH).

2833. HECKER, J L Dissertatio de succino, ejus characteristibus, origine et usu prolusio historico-mineralogica. Heidelbergae, 1794. 16 p. Not seen; from G R v Bock, 170.

HEDDLE, MATTHEW FORSTER(1828-1897)

Scot physician, naturalist, mineralogist; b in Orkneys; MD U Edinb 1851; practise in Edinb where developed strong interest in chem, bot, mineralogy; asst to prof chem U St Andrews 1856, succeeding to that post 1862; pres Min Soc Gt Brit & Ireland 1879; last years spent preparing his *The Mineralogy of Scotland*, but died before completion; final touches to this work applied by his friend J G Goodchild and son-in-law Alexander Thoms. Heddle particularly collected & studied Fifeshire agates, forming a very large collection that passed into Roy Scot Mus, Edinb, along with his mineral collection. Obits: *Nature*, 57, 1897, 83-4; *Proc Roy Phys Soc Edinb*, 14, 1898, 69-77; *Mining Mag*, 12, 1898, 38-41; *Trans Edinb Geol Soc*, 7, 1899, 317-27, pl; biogr note *Gems*, 5, 3, 1973, 23, 25, 26, portr.

2834. -----1899 Heddle collection of Scottish agates. Edinburgh Museum of Science and Art, Guide, Edinburgh, 1899, 224 p. Not seen.

2835. -----1900 No.XII.-On the structure of agates. By the late M.Forster Heddle... With thirty illustrations from drawings by the author. *Trans Geol Soc Glasgow*, 11, pt 2, 1900, 153-73, 30 fig. JSL. Also separate: print wrap, 21.6 x 13.6 cm(8 1/2 x 5 3/8 in). JSL. Contains the summarized results of many years of observation and conclusions on the formation of Scottish agates, of which the author was particularly fond and which he collected with enthusiasm. The sketches were made by him from actual specimens and illustrate a wide range of internal structures in typical nodules.

2836. -----1901

The | Mineralogy Of Scotland | By The Late | M.Forster Heddle, M.D., F.R.S.E. | Emeritus Professor Of Chemistry, St.Andrews | Edited By | J.G. Goodchild | H.M.Geological Survey, F.G.S. | Vol.I [-II]. | Edinburgh | David Douglas, 10 Castle Street | 1901 | [All Rights Reserved]

8°: I: 1viii, 148 p + LI pls bound-in; front portr pl of Heddle with tissue, tip-in + 6 pls in text, tip-in; altogether 58 pls; 30 fig. Dk green pebbled cloth, blind frames on covers, gold lett & rules on spines. Dk gray dull finish endp. 24.9 x 15.5 cm(9 3/4 x 6 1/8 in(. Cut. All paper is exceptionally thick and gatherings tend to pull loose. II: viii, 247, [1]p; Pls LII-CIII, now bound-in ahead of index but after text; front pl with tissue + another pl, both tip-in, plus 8 other pls in text, tip-in; altogether 63 pls.

Cont: I: 1/2tp; print data; pl; tp; dedic; pref; biogr of Heddle by Alexander Thoms; tab cont;ill list; minerals lists(2); "Scottish pesudomorphs" by James Currie; index of Scottish palaeosomatic minerals; counties list of minerals; text; pls. II: 1/2tp; print data; pl; tp; tab cont; ill lists; pl; text; suppl by J G Goodchild; append by author; pls; map of Scotland; index to mineral localities. GS 11-631.

This magnificent work, the only complete and still unsuperseded description of the minerals of Scotland, was published posthumously after final touches to the material were made by the author's good friend, J G Goodchild, and Heddle's son-in-law, Alexander Thoms. An explanation of how all of this came about is to be found in the prefatory matter of Vol I. While scattered references appear on minerals suitable as gemstones, it is the matter on Scottish agates, of which Heddle was very fond and had personally collected a great many, that primarily concerns the gemologist. Accordingly, much detailed information is given on localities but even more on the inner features of nodules. Many are illustrated by means of the author's sketches which appear on pages 59-74 in Vol I. The entire work is handsome, authoritative, and furnished with a large number of attractive plate. Scarce.

2837. -----1923, reprinted.

The | Mineralogy Of Scotland | By The Late | M.Forster Heddle, M.D., F.R.S.E. |...| Edited By | J.C.Goodchild | H.M.Geological Survey, F.G.S. | Reprinted | Under Authority Of | Alex.Thoms, Esq. | By | The Council Of University College, Dundee | Assisted By | D.E.I.Innes, M.A.,M.C. | Lecturer In Geology In The University Of St.Andrews. | Vol.I[-II]. | St.Andrews | W.C.Henderson & Son, Church Street, | 1923[-4] | [All Rights Reserved]

Text identical in content and pagination but entirely reset and in a different style of type; illustrations same except errata slip in Vol I states that the plate to face p 112 is not available, while in Vol II the errata slip notes that the map of Scotland plate has been withdrawn. Also in Vol II, tissue for the frontispiece plate is omitted; synonomic index now placed ahead of plates and paged 213-250 instead of 213-247. The errata formerly at end of text now appear on slips. Price 15.-.

John George Goodchild, b London 1844; joined Geol Survey 1867; to Scotland 1887; d Edinburgh 1906; obits: *Athaeneum*, London, Jan-Jun, 1906, 238; *Colliery Guardian*, London, 91, 1906, 421; *The Geol Mag*, London, dec 5, vol 3, 1906, 189-90; *Nature*, London, 73, 1906, 469.

2838. HEDINGER, AUGUST

Die vorgeschichtlichen | Bernsteinartefakte | und ihre Herkunft | Von | Medizinalrat Dr.A.Hedinger, | Vorstand des württembergischen anthropologischen Vereins. | [rule] | Strassburg | Verlag von Karl J.Trübner. | 1903.

Centersewn: [1 blank], [6], [1 blank], 36 p + 16 p catalog of publ bks (with own tp dtd 1903). Tan, thick paper wrap, title in brown & pale red on cover with logo; printer in dk brown back cover. 19 x 12.4 cm(7 1/2 x 4 7/8 in). Cut. LC 23-15124.

Cont: blank p; logo; tp; printer; dedic; tab cont; text; catalog.

Prehistoric amber artifacts and probable origins, treating amber as known in antiquity, finds in various time periods, amber trade routes and when used, discoveries of worked amber in Mediterranean and Near East lands, chemical analyses as clues to provenance, conclusions. Basic facts are provided on amber, properties, sources, etc, with the author concluding that finds of amber in places distant from sources do not represent transfer via trade but rather indicate that migrating Germanic peoples took the amber with them [no authority on amber concurs in this view].

2839. HEDSTRÖM, HERMAN. Om Sveriges naturliga byggnads- och ornamentstena jämte förteckning öfver de vikstigaste svenska stenindustriidkande formorna. *Sveriges Geologiska Undersökning, Afhandlingar och Uppsater*, Stockholm, ser c, nr 209, 1909, p 1-64, pls 1-14, geol map. Not seen. GS 9-123.

2840. -----1909, Engl transl

Sveriges Geologiska Undersökning | [rule] | On | The Natural Building And Ornamental | Stones Of Sweden | Together With | A List Of The Leading Swedish Firms Engaged | In The Stone Industry | By | Herman Hedström | [rule] | (With 14 Plates And 1 Map) | [orn rule] | Stockholm | Kungl. Boktryckeriet. P.A.Norstedt & Söner | 1909

8°: 70 p; 14 pls(8 col, 2 stone pcs per pl); fold part col map, all bound-in at end. Pale green print wrap, title on cover. 24.1 x 15.7 cm(9 1/2 x 6 1/8 in). Cut. JSL.

Cont: tp; pref; text; list of firms; pls; map.

Short historical survey of stone and industries in stone in Sweden, descriptions of principal rocks, crushing strength statistics, and list of firms. The color plates are mostly handsome granites and other igneous rocks. The most important producing districts are shown on the map.

2841. HEERTJE, H De Diamantbewerkers Van Amsterdam. Door Dr. H.Heertje. 1936. D.B.Centen's Uitgevers-Maatschappij N.V., Amsterdam. 8°: 317, [3 blank]p, 3 graphs, map. Green cloth, orn & lett. 23.5 x 16.5 cm(9 1/4 x 6 1/2 in). Cut. Poor, perishing paper, badly embrittled. Exhaustive history of the Amsterdam diamond industry written primarily from the sociological-labor viewpoint. First part: history to 1894, part two: developments during 1894-1936, part three: studies life, customs, habits, outlook, etc of the workers. Biblio p 304-12, 166 entries.

2842. HEIDE, H E; WRIGHT, W S & RUTLEDGE, F A Investigations of the Kobuk River asbestos deposits, Kobuk district, northwestern Alaska. *US Bu Mines RI* 4414, Mar 1949. Edgestapled: [2], 25 p; 16 fig(all on one side of single f and consisting of maps, photos, diagrs). 26.8 x 20.4 cm(10 1/2 x 8 in). Cut. JSL. Describes chrysotile asbestos deposits in serpentine bodies outcropping in low hills along N slopes of the Kobuk River valley: geology, mineralogy, deposits, and with remarks on the nephrite intimately associated; maps of value to later jade prospectors.

2843. HEIDGEN, HEINZ Diamantsucher in Tanganjika. Graz, Austria: Verlag Styria, 1955. Not seen.

2844. -----1959, Engl transl

The Diamond Seeker | The Story Of John Williamson | [orn rule] | Heinz Heidgen | Translated From The German By | Isabel And Florence McHugh | Illustrated by Gottfried Pils | Blackie: London And Glasgow [1959]

8°: [blank]f + 139, [1]p + [blank]f, the blanks integral with first & last gatherings; 10 fullp ink sketches. Pale blue cloth-type paper over bds; black lett cover & spine. Col dj, Williamson photo; mine scene, resume, vita. 20.4 x 13.4 cm(8 x 5 1/4 in). Cut. Te stained blue. £ 10/6 net. GS 11-631; LC 60-3680. JSL.

Cont: blank f; 1/2tp; publ data; tp; publ data; tab cont; publ note; Williamson vita; pref; text tp; 10 chs; epilog; publ note; blank f.

Highly romantic story of Williamson, his search for a great diamond pipe, its discovery & exploitation. The publisher states that the story is "based on the true story of Dr.John Williamson. It is, however, a fictional account of his search and great discovery, and the descriptions of the various characters... are not intended as portraits of any living person." Subject to this qualification, a few more facts become available about the notoriously secretive Williamson. John Thoburn W, b Montfort, Que 1907; grad in geol & mineralogy McGill U; asst geol Que Geol Survey; emigrated to Africa & eventually found Mwadui pipe 1940; d Mwadui 1958. For insights into character/personality, etc of Williamson, see Albert Joris's introd to I L Idriess *Diamond, Stone of Destiny*, 2nd edit 1969. Obit: *The Gemm*, 27, 318, 1958, 19. See also FOURIE, M.

2845. HEIKENEN, PATRICIA, editor. Jade as sculpture. On exhibit Minneapolis Museum of Art, Saint Paul, Minnesota, 19 February - 26 March, 1975. Rare Art, Inc., New York, New York, 9 April - 6 June, 1975. Indianapolis Museum of Art, Indianapolis, Indiana, 17 June - 1 August, 1975. Saint Paul, Minnesota Museum of Art. [1975] 81 p, ill, col pls, buff paper, embossed pi disk on cover. Not seen, from G M Born, 170.

2846. HEIN, HEINRICH

Untersuchung | über | faserige Kieselsäuren | und deren Verhältnis zu Opal and Quarz. | [rule] | Inaugural-Dissertation | zur | Erlangung der Doktorwürde | der | hoher philosophischen Fakultät der K.Christian-Albrechts- | Universität zu Kiel | vorgelegt von | Heinrich Hein | aus Hamburg. | [orn rule] | Kiel 1907.

8°: [3]p + p 182-231 + [1]p; pale gray print wrap, title on cover. 22.5 x 14.7 cm(8 7/8 x 5 3/4 in). Cut. JSL. [Sep: *Neues Jb Min*, B-Bd 25, 1907, 182-231.]

Investigates fibrous forms of natural silica and relationships to opal and quartz. Surveys literature, p 229-31, 41 entries, examines numerous thin-sections, mainly chalcedonies, from various sources. Conclusions treat changes in form of silica from chalcedony to opal and vice versa, optical properties, intergrowths and alterations, and reasons for dye-acceptance by certain chalcedonies and not by others; he attributes no signficant role to opal in respect to dye-permeability.

2847. HEINIGER, ERNST A & HEINIGER, JEAN, editors

Ernst A. And Jean Heiniger | The | Great Book | Of Jewels | With contributions by Eduard Gübelin | Erika Billeter | Guido Gregorietti | R.A. Higgins · Hugh Tait | Charles Ledit

| R.W.Lightbown | Renée S.Neu | George S.Switzer | Edita Lausanne [Lausanne: Edita S.A., 1974]

4°: 316, [1], [1 blank]p; the first f is blank; 210 col photos, 98 b&w photos, 12 diagrs on glossy f includ in pag; doublep sketch map. Red, cloth-type paper over bds; gold title cover & spine; black dj diamond jewel in col on cover & enameled jewel back cover; flap resume. 24.5 x 28 cm(l3 1/2 x 11 in). Cut. ISBN 0-517-18132-9; LC 74-78459. JSL.

Cont: blank f; 1/2tp; tp; publ data; dedic; tab cont;pref & ackn; text; tab of gemstones; sources & ackn; biblio(p 314-5, 140 entries); photo credits; print data; blank p.

Physically large book, with handsome illustrations and tasteful design. Much time & trouble were taken by the editors to locate various gems and jewels in order to take new photographs, eg, Wittelsbach diamond. Many of the subjects have never before been available for photography while those that have been published now receive new illustration. Upon this assemblage of photographs the editors conceived the idea for this book, fleshed out, however, with essays appropriate to the major theme. Of special gemological interest is the first essay by Gübelin, "The Origin of Gemstones," p 15-32, a general survey of gemstones but not particularly concerned with genesis; photos of rough & cut gemstones are appended. Billeter explores the age-old fascination of gems for personal adornment, Gregorietti treats the precious ornaments of ancient times, while styles and forms of jewels, and how they developed, are explored by Higgins and Tait of the British Museum staff. In other essays, Ledit deals with sacred jewels, mainly as objects of art rather than for personal wear, Lightbown describes regalia and ceremonial items, Neu deals with modern jewelry, while some famous gems and jewels are described by Switzer of the Smithsonian Institution. There is a summary table of gemstones properties, deposits, and periods of greatest use of the gemstones named. As may be expected from a "coffee-table" book, the present work is superbly illustrated but the spaces allocated to the authors, not to mention the large type size used, prevented them from giving more than a cursory view of their topics.

2848. -----1974, Boston edit

Ernst A. And Jean Heiniger |...| George S.Switzer | New York Graphic Society · Boston [1974]

Same pag, ill, etc, but now bound in red leatherette cloth and tan-yellow endp. 34.5 x 28.2 cm(13 5/8 x 11 1/8 in). Price $59.50 to 12/31/74, thereafter $69.50. Remaindered Feb 1976 @ $25.00. ISBN 0-8212-0267-3; LC 74-78459. JSL. Curiously, it was reprinted in 1982(?), p [6] stating "Library of Congress Catalog Card Number: 82-84585 [and] ISBN: 0-517-181320." It was printed in Italy but bound in Switzerland. Red, textured paper, like cloth, over bds; white endp. $69.50.

HEINSIUS, D, see THEOPHRASTUS, 1613

2849. HEINZ, HERBERT Die Entstehung der Achate, ihre Verwitterung und ihre künstliche Färbung. *Chemie der Erde, Zs d chemischen Mineralogie, Petrographie, Geologie u Bodenkunde*, Bd 4, H 4, 1930, 501-25, Taf 4; 14 figs. JSL. Also offprinted. On origin of agate, its weathering and artificial coloration: brief review of theories on origin, descriptions of 13 specimens investigated, including banded & tube agates("eye" agates in cross-section), milk opal, opal, flint, red jasper, siliceous geyser sinter, their structures, chemical compositions, densities and opal contents, and descriptions of his coloration experiments using warm concentrated sugar solution impregnations followed by treatment with concentrated sulfuric acid. Results of X-ray investigations are given as well as microscopic studies of the fine structures, and lastly, experiments with gels in the manner of Liesegang.

2850. HEISTER, OBERST VON

Geschichtliches | über | den Bernstein | vom Oberst v. Heister. | [rule] | Einleitung und erster Abschnitt | vorgelesen | im historischen Vereine zu Münster | am 8. März 1853. | [rule]| Als Manuscript gedruckt. | [rule] | Münster, | Druck und Papier von Friedrich Regensberg. | [rule] | 1853. [Includes Zweiter Abschnitt, p 46-56, which has no tp]

8°: 56 p. 20.8 x 13.2 cm(8 1/4 x 5 1/4 in). Cropped. JSL.

Cont: tp; introd; two part text.

During 4 years residence in Königsberg, the author studied amber and produced this work. The first section treats amber in antiquity, knowledge of Israelites concerning amber, sea trade in amber conducted by Phoenicians, overland trade, amber in Far East, Greek knowledge of amber, the Phaëthon legend(given in detail), origin of term "elektron," ancient speculations on location of anber sources as well as later knowledge of Baltic deposits, archeological finds in the 18th century, uses & place of amber in Roman culture. Second section: history of Baltic amber from the time the Balts were conquered by Teutonic Knights in 13th century up to early 18th century, development of amber industry, regulations, production, mining, classification of raw amber, working amber into finished products, creation of the amber guilds. No references.

2851. HEIZER, ROBERT F & TREGANZA, ADAN E

Mines and quarries of the Indians of California. *Calif Div Mines, Calif J Mines & Geol, Quarterly Ch of State Mineralogist's Rpt*, XL, vol 40, no 3, San Francisco 1944, 291-359, 8 maps, 11 fig, biblio p 345-59, ca 240 entries. JSL. Excellent, thorough study of use of minerals, rocks & gemstones by California Indians and the mines & quarries developed by them to extract such materials. The technical and scientific expertise of the Indians is discussed, methods of work described, also tools, and descriptions of mines and quarries given. The gemstones include obsidian, quartz varieties, turquoise, tourmaline, alabaster, and malachite, with a list of rocks, minerals, and decorative stones used given on p 342-3. The bibliography consists of two lists, the first of literature cited and the second of literature treating all North American Indian mining and quarrying.

2852.-----1972, reprinted

Mines and Quarries | of the | Indians of California | Robert F. Heizer and Adan E. Treganza | Ballena Press | P.O.Box 711 | Ramona, California 92065 | 1972 [title in pale red orn frame]

Cementb: [1]f blank + [2]p + p 291-359 + [1] f blank. Same ill. Pale red thick paper wrap, cover title & ill. 26.7 x 17.4 cm(10 1/2 x 6 7/8 in). Cut. $2.50. JSL. Photoreproduction; handsomely done.

2853. HELBIG, W Osservazioni sopra il commercio dell'ambra. *Atti della Reale Accademia dei Lincei*, Roma, 274, 1876-77 and *Memorie delle Classe di Scienze Morali*, I, 1877, 415-35. Not seen, from G R v Bock, 175.

2854. HELFRICH-DÖRNER, ALMA

Das | Kleine | Perlenbuch | Von den Perlen in der Geschichte, | der Geschichte der Zuchtperlen und den | Einrichtungen und Arbeitsgängen auf | japanischen Perlenfarmen - | mit Originalaufnahmen aus Japan | Text und Bildauswahl von | Dr.Alma Helfrich-Dörner | Die Muschel wird vom reinen Tau befruchtet, |...[2 more lines]... | Pliny

Back flap of wrap: "Herausgeber: Erwin Rottenburger, Kulturperlen-Import 7530 Pforzheim, Scheffelstrasse 3 [Ger];" nd, ca 1967.

Gatherings sewn in sixes: 44, [4]p; 16 photos, 10 small sketches. Thick plain white paper wrap pasted to spine & with glossy print wrap folded over in the manner of a dj, the latter bearing title & photos. 20.8 x 21 cm(8 1/4 x 8 1/4 in). JSL.

Cont: 1/2tp; company data; tp; 2 part text; photos; tab cont; ill list.

Handsome pamphlet promoting Japanese cultured pearls. Part one: history of pearl, lore, kinds of pearls, qualities, properties, occurrences, famous pearls, freshwater pearls. Part two: the cultured pearl, current methods used in Japan, description of steps, matching, and finishing, discussion of qualities.

2855. HELGREN, DAVID MARVIN River of diamonds: an alluvial history of the lower Vaal River basin. Chicago: PhD Thesis, U Chicago, 1976. Not seen.

2856. HELLBECK, ROBERT Deutschen Bernstein. *Beihefte der Reichsanstalt für Film und Bild in Wissenschaft und Unterricht*, Stuttgart,242, 1943, 23 p. Not seen, from G R v Bock, 175.

2857. HELLER, L, & SON, INC

Hope | A Publication For Jewelers | Devoted to an | exposition of | the facts about | Precious stones, | nature-made and | man-made [orn] | [line or orns] | April, 1921 [New York City; title, part col, in col orn frame on cover]

Centerstapled: [16]p; 3 photos, many small ch orns & vignettes. 22.4 x 14.6 cm(8 3/4 x 5 3/4 in). Cut. Yellow, semi-glossy paper. JSL.

Written in popular style and attractively got up to publicize the synthetic stones (made in Switzerland) sold by the company.

2858. -----1928

Golconda | In The | Laboratory | [lab apparatus] | L.Heller & Son, New York - Paris [1928; title from cover]

Centerstapled: 15, [1]p; col vignettes, orns. 15.5 x 11.7 cm(6 x 4 5/8 in). Cut. Thin yellow-orange card wrap; text paper stiff, pale tan-yellow. Text based on foregoing pamphlet.

2859. -----1930

Hope Stones as Birthstones | L.Heller & Son, Inc. | 15 West 47th St. New York | Hope Stones [title surmounted by col ill of 3 young ladies heads, all forming front cover of pamphlet; 1930]

Centerstapled: [16]p including covers; 12 col ill of cut gems in rings. 15.9 x 8.3 cm(6 1/4 x 3 1/4 in). Cut. White, semi-glossy paper.

For these "birthstones" the company provides their own names, either for the corundums or spinels, with list inside back cover but also giving the "traditional" stones.

HELLWIG, CHRISTOPH VON, see KRÄUTERMANN, VALENTINUS

HELM, OTTO

Apothecary, chemist in Danzig; first systematic chemical analyses of amber from various sources as means of source identification. Prolific writer on amber.

2860. -----1877 Notizen über die chemische und physikalische Beschaffenheit des Bernsteins. *Archiv Pharmacie*, 8, 3, 1877, 229-46. Not seen.

2861. -----1878 Ueber die mikroskopischen Beschaffenheit und Schwefelgehalt des Bernsteins. Ibid, 10, 6, 1878, 19 p; also *Schriften Naturforsch Ges Danzig*, NF, 4, 3, 1878; not seen.

2862. -----1878 Gedanit, ein neues fossiles Harz. *Schriften Naturforsch Ges Danzig*, NF, 4, 3, 1878, 214-16; not seen.

2863. -----1881-95 The following are entitled "Mittheilungen über Bernstein," and all publ in *Schriften der Naturforschenden Gesellschaft Zu Danzig*; I have not been able to locate I-III.

IV Über sicilianischen und rumanischen Bernstein. 5, 1-2, 295-6. Not seen.

V Über sicilianischen Bernstein. 5, 3, 8-9. Not seen.

VI Über die elementare Zusammensetzung des Ostsee-Bernsteins. 5, 3, 1882, 9-11. Not seen.

VII ?

VIII Ueber enige Einschlüsse im Bernstein. 6, 1, 1884, 125-7. JSL.

IX Ueber die Holzreste im Bernstein und unter Bernstein. 6, 1, 1884, 127-32.JSL.

X Ueber blaugefärbten und fluorescirenden Bernstein. 6, 1, 1884, 133-4. JSL.

XI Ueber knochenfarbigen und bunten Bernstein. 6, 1, 1884, 134-8. JSL.

XII Über die Herkunft des in den alten Königsgraben von Mykenä gefundenen Bernstein und über den Bernstein säuregehalt verschiedener fossiler Harze. 6, 2, 1885, 239. Not seen.

XIII Über die Insekten des Bernsteins. 6, 3, 1886, 267. Not seen.

XIV Ueber Rümanit, ein in Rumanien vorkommendes fossiles Harz. 7, 4, 1887, 186. Not seen.

XV Über den Succinit und die ihm verwandten fossilen Harze. 7, 4, 1887, 190. Not seen.

XVI Ueber Birmit, ein in Oberbirma vorkommendes fossiles Harz. 8, 3, 1888, 63. Not seen.

XVII Über den Gedanit, Succinit und eine Abart des letzteren, den sogenannten mürben Bernstein. 9, 1, 1895, 54. Not seen.

2864.-----1891 Thierische Einschlüsse im Succinit. *Schriften Naturf Ges Danzig*, 1891. Not seen.

2865.-----1893 Über den im Handel vorkommenden Bernstein. *Danziger Zeitung*, Beilage zur Nr 20 170, 11 Juni, 1893. Not seen.

2866. -----1895 Beiträge zur Kenntniss der Insekten des Bernsteins, *Schrift Naturf Ges Danzig*, 1895. Not seen.

2867. -----1898 Ueber die durch eingeschlossenes oder eingedrungenes Wasser und andere Flüssigkeiten im Succinit hervorgebrachten Erscheinungen. Ibid, Not seen.

2868. -----1902 Über die unter dem Kollektivnamen "Bernstein" vorkommenden fossilen Harze. Ibid, 10, 4, 1902, 16-23. Not seen.

2869. HELM, OTTO & CONWENTZ, H Studi sull'anbra di sicilia. Malpighia, Messina, anno I, fasc 2, 1886. Not seen.

HELMREICHEN VON BRUNFELD, VIRGIL(1805-1852)

Ger geol; stud at mining acad Schemnitz; various mining posts in the districts of east & central Europe; to Rio De Janeiro 1836-39 in charge of a gold mine; civil servant Brazilian govt; first to investigate diamonds in the "mother rock" of Serra Grão Mogor. NDB 8, 504.

2870. -----1846

Über Das | Geognostische Vorkommen | Der | Diamanten | Und | Ihre Gewinnungsmethoden | Auf Der | Serra Do Grão-Mogór | In Der Provinz Minas-Geraes In Brasilien | Von | Virgil v.Helmreichen | zu Brunfeld, | k.k. Montan- Beamter. | [rule] | Mit einem Vorwort des k.k.Bergraths | W.Haidinger. | [orn rule] | Mit neun lithographirten Tafeln. | [orn rule] | Wien, | Bei Braumüller & Seidel, | 1846.

8°: IV, 74, [1], [1 blank]p; 9 litho pls(several part hand-col; one is fold panorama ca 85 cm long). Pale green wrap, title in orn frame on cover. 23 x 14.8 cm(9 x 5 7/8 in). Uncut. USGS Kunz Coll, GS 34-723.

Cont: tp; print data; fwd; text; tlb cont; blank p; pls.

Thorough, detailed study of the geography, geology and mineralogy of the famous alluvial diamond deposits of the Grand Mogul region of Minas Gerais, Brazil with remarks on diamond occurrences, river bed and fissure deposits, methods of mining and recovery, color, luster and crystallography of the diamonds, their sizes, sorting and trade. The plates depict cross-sections and details of rock structures at the deposits, also erosion forms assumed by the rocks, and include a large folded panorama of the local countryside. Helmreichen's study began as a result of a rumor that an "in situ" diamond had been blasted out of rock in the district in 1838 but as proved later, this and other diamonds occur in a cemented conglomerate rather than in the rock of their formation. At this time, diamond in kimberlite was unknown.

2871. HEMRICH, GERALD I

The Handbook Of | Jade | By | Gerald I.Hemrich | [logo] | Price $2.00 | Copyright © 1966 by Gembooks | Published By | Gembooks | Mentone, California

Centerstapled: 81 p(includes back cover); 40 fig(one on inside front cover). Pale green wrap, dk green jade photo,black title, advert. 20.9 x 13.8 cm(8 1/4 x 5 3/8 in). Cut. JSL.

Cont: tp; tab cont; pref; 11 chs; append.

Aimed at the general public and the lapidary/jewelry-making hobbyist: distinctions between jades, unusual types of jade, colored jades, qualities, jade substitutes, buying advice, collecting, field trips, foreign sources of rough, lapidary treatment, with appendix on additional lapidary tips and field identification table. Frequently reprinted.

2872. -----1977-1980 Faceting for beginners. *Gems & Minerals*, no 475, May 1977, p 28 to no 517, Nov 1980, p 26; 20 articles, each about 1-2 pages.

2873. HENDEL, JOHANN CHRISTIAN(1742-1823)

Anleitung | zur | Kenntniss | der Edelsteine und Perlen, | Als Handbuch | für | Juweliere und Steinschneider. | [rule] | Nebst einer Beschreibung | des sächsischen Kunstschatzes | oder | des sogenannten grünen Gewölbes | in Dresden. | [rule] | Mit einer Kupfertafel. | [rule] | Halle, | J.C.Hendels Verlag. | 1816.

8°: [2 blank], XIV, 222 p; pi^2, pi^6, A-P^8, Q^7. Yellow paper over bds, gilt spine label. 16.6 x 9.7 cm(6 1/2 x 3 3/4 in). Cut. Probably not an original binding. Front pls & title f conjugate, on very pale green paper, tipped-in. USGS Kunz Coll, GS 33-290.

Cont: pl; tp; introd: text; errata & additions.

Hendel places and describes gemstones in three "rankings," namely, (1) generally hard, transparent gemstones of greatest value, (2) gemstones of lesser value, and (3) the "semi-precious" stones of low rank and value. This treatment ends on p 172 and is followed by a treatise on pearls to p 197, and the remainder devoted to a brief description of some of the major pieces preserved in the Green Vaults treasury in Dresden. Detailed and accurate treatment of gemstones, with most essential properties covered.

HENDERSON, E P, see CLARKE, R S

2874. HENDLEY, THOMAS HOLBEIN

The | Journal | Of | Indian Art. | [orn rule] | Vol.XII. Nos.95-107. | [orn rule] | Indian Jewellery, | By | Thomas Holbein Hendley, C.I.E. | Formerly Fellow of Calcutta University; Vice President of | the Asiatic Society of Bengal; President of the Second | Decennial Art Conference, Lahore 1894; | Member of the Judging Committee Delhi Exhibition, 1902-3 & c., | & c., and Author of various works on Indian Art, & c., & c. | [orn rule] | Illustrated | By | W.Griggs & Sons, Ltd., Hanover Street, Peckham, London, S.E. | July, 1909.

Note: I have not seen the individual numbers of the journal and can only describe what appears to be a privately bound (in 3 cloth portfolios) set consisting of a text volume and two volumes of plates.

Edgesewn(?): [3]f + p 1-189 + blank p + [1]f + iv p; bound in dk grayish- blue cloth, gilt spine.. 36.9 x 27.4 cm(14 1/2 x 10 3/4 in). Cut. With two matching cloth portfolios, with brown cloth tie-tapes. Thomas Heneage Catalog 4, London, 1985, item 135, gives text vol size as 39 x 29 cm.

Aside from the different title, the contents match that of the formally bound set described below except that the last unsigned leaf and iv pages of the above are titleleaf and indexes to text and illustrations.

2875. -----1909, regular single-volume issue

Indian | Jewellery | By | Thomas Holbein Hendley, C.I.E. | Formerly Fellow of Calcutta University; Vice-President of the Asiatic Society of Bengal | President of the Second Decennial Art Conference, Lahore, 1894; Member of the Judging | Committee, Delhi Exhibition, 1902-3, &c.; and Author of various

works on Indian Art, &c. | With 167 Plates | (32 in Colours, 135 in Monochrome) | London | Extracted From The Journal Of Indian Art | 1906- 1909. [Reprinted from the journal, first article from no 95, vol 12, July 12th, 1906].

4°: [5], [1 blank], 189, [1 blank] p; 167 pls, printed rectos only, bearing 32 col lithographs, 135 b&w lithographs & photos. 1/4 black leather, blue cloth sides; gold title & floral orn enclosed in gold frame on cover, similarly on spine with date & rules.Blue cloth inner hinges. Pale greenish blue imitation marbled endp. 26.5 x 27.5 cm(14 3/8 x 10 7/8 in). Teg. JSL.

Cont: tp; tab cont; pref; blank p; text; ill list; notes & errata; errata; blank p.

The text consists of 10 extracts from the journal with each part with its own heading as it appeared in the magazine, and followed by appropriate plates. It is certainly the largest, most detailed, and lavishly illustrated monograph ever to appear on the subject. The jewelry of each province of India and Burma is carefully examined and described, with citations from works of early travelers and other authorities giving the native terms and synonomies for specific types of jewels, and, in some instances, for gemstones, jewelry-making techniques, and other matters connected with the central theme. The text is so full of references to gemstones and individual gems that little would be gained by attempting to list them. For the most part, the color plates depict natives in traditional costumes in which jewelry is part of the costume and prominently displayed. Many plates also show individual jewelry pieces. The monochrome plates depict many hundreds of pieces of jewelry of every type known to exist in India and Burma, and all are, by and large, high quality illustrations. This work is considered the final authority on the subject and copies now are very scarce.

2876. HENEAGE, E F The phenomena of the diamondiferous deposits of South Africa. *Trans Inst Min Met*, London, 12th sess 1902-3, vol 12, 115-27, with discussion and contributed remarks, 128-39. JSL. Raises questions on the formation of kimberlite pipes in South Africa and origin of diamonds found therein, noting that no universally-accepted theory has been propounded.

2877. HENIG, MARTIN

A Corpus of | Roman Engraved | Gemstones | from British Sites | Part i: Discussion [ii: Catalogue and Plates] | Martin Henig | British Archaeological Reports 8(i) | 1974 [Oxford; in 2 parts, sep described]

Edgestapled: Part i: [4], 295, [1 blank], [1], [1 blank]p; 4 fig (on 3 bound-in f not includ in pag). Stiff, bright blue wrap, cover title. 29.5 x 20.5 cm(11 5/8 x 8 1/8 in). Cut. LC 75-333070. JSL.

Cont: 1/2tp; tp; publ data; tab cont; ackn; pref; ill list; biblio (p 5-20, ca 220 entries); introd; 12 chs; corrigenda; blank p; publ advert.

Treats use of intaglios during Roman occupation of Britain, dating methods, gems found, gems as documents of contemporary history, religious, mythological motifs, symbolism, depictions of contemporary life, Roman gems in the Anglo-Saxon and Middle Ages periods.

Part II: [5], [1 blank], 117, [2 blank]p + 50 f bearing over 1,000 ills with captions + [1]f advert.

Cont: 1/2tp; tp; publ data; tab cont; key to pls; key to fig types; site index; catalog; pls; publ advert; blank p.

The first series of plates are photographs after plaster casts of engraved gems in the Ashmolean Museum, Oxford while the second series are of the actual objects as taken by the author and are generally satisfactory in quality. The text is printed from typescript. A surprisingly large number of gems are described and depicted in the two volumes and it appears that the present work is the first to do justice to the abundant and important Roman gems that have been found in Britain. Interestingly, the jet of England was also carved and engraved by Roman artisans and several of jet objects appear in the catalog.

2878. -----1978, 2nd edit

A Corpus of |...| from British Sites | Martin Henig | BAR British Series 8 | (Second Edition) | 1978

Edgestapled: flyleaf of plastic-fiber paper with small cupid on p [1]; p [2 blank] + [4], 323, [1 blank]p + 76 photo pls on 38 f + [1], [1 blank] p + plastic-fiber blank flyleaf. Thick, bright blue wrinkled paper wrap, cover title. 29.5 x 20.5 cm(11 5/8 x 8 1/8 in). Cut. £8.50. ISBN 0 86054 039 1.

Cont: flyleaf; tp; publ data; tab cont; dedic; introd; biblio(p 3-14, 214 entries); text in 2 parts; notes; key to fig types; index of fig types; site index; catalog; corrigenda; epilog; blank p; pls; publ note; blank p; flyleaf.

2879. -----1975

The Lewis Collection of | Engraved Gemstones in | Corpus Christi College, | Cambridge | Martin Henig | BAR Supplementary Series I | 1975. [Oxford: British Archaeological Reports]

Edgestapled: [6], 94 p + 30 f of pls with own tp + [2]p other titles & publ + [1] f blank. Stiff, dk red print wrap, cover title. 29.3 x 20.1 cm(11 1/2 x 7 7/8 in). Cut. £2.90($7.00) post free. JSL.

Cont: 1/2tp; tp; publ data & officer list; tab cont; dedic; introd; concordance tab; findspots & places of purchase; abbrev; catalog; append; catalog to append; pls tp; pls; advert; blank f.

"This catalogue is intended to replace the list compiled by Middleton some eighty years ago... Lewis bequeathed his collection to Corpus Christi College, Cambridge where it remains to this day." Henig also notes that "scholars have all too often ignored what is, undoubtedly, one of the best collections of Graeco-Roman intaglios in Britain... owing to the fact that Middleton illustrated very few pieces, none by photography." "The short appendix... lists a cache of glass intaglios and cameos, evidently found together, probably somewhere in the East Mediterranean area... [and] throws light on the method of manufacture used for the glass gems in the Lewis Collection." Several direct photographs of gems are present but most are taken from impressions. See MIDDLETON, J H, 1891.

2880. -----1975

Vindolanda | Jewellery | by | Martin Henig, M.A., D.Phil.; F.S.A. | 1975 | S.B.N. 0 85983 057 8 | [logo] | Published by Frank Graham | 6 Queen's Terrace, Newcastle upon Tyne, NE2 2PL | Printed by Howe Brothers(Gateshead) Ltd.

Centerstapled: 32 p; 35 photos & drawings. Stiff glossy wrap, title in red & black on cover with col pls engrav gems & rings; publ bk list back 21 x 13.7 cm(8 1/4 x 5 3/8 in). LC 78-315609. 60 p. JSL.

Cont: tp; dedic; ackn; caption; pref; text; biblio & publ bk list.

Archeological excavations of Roman Vindolanda settlement in the north of England provided numerous items of jewelry in which engraved gems are prominent.

2881. HENKEL, FRIEDRICH(1865-1925)

Die | Römischen Fingerringe | Der Rheinlande | Und Der Benachbarten Gebiete | [orn rule] | Mit Unterstützung | Der Römisch-Germanischen Kommission | Der Kaiserl. Archäologischen Instituts | Herausgegeben Von | Dr.Friedrich Henkel | Professor, Oberlehrer Am Grossherzogl. Gymnasium Zu Worms. | Mit 80 Lichtdrucktafeln Und Zahlreichen Abbildungen Im Text | Text [& Atlas] | [logo] | Druck Und Verlag Von Georg Reimer | Berlin 1913

Text 4°: XXVIII, [1], [1 blank], 387, [1 blank]p; 262 fig. Probably issued in print wrap - I have not seen a copy that I would deem to be in a "standard" binding. This copy in cloth. 31.9 x 26 cm(12 1/2 x 10 1/4 in). Cut & cropped(?). JSL.

Cont: tp; fwd; introd; text in 2 parts; biblio(p 353-6, 120 entries); indexes; amplify remarks & correct; concl; tab cont; blank p.

Plates: 4°: [1], [1 blank]p + 80 sepia-tinted photo pls on stiff leaves + [1], [1 blank]p. Each pl f is hinged, bound-in.

Cont: tp; blank p; pls; tab cont; blank p.

In every respect a remarkable work, rich in descriptive detail and embellished with wide-ranging comments concerning the rings themselves and related topics. Among other topics, the introduction discusses why the study of rings is valuable and provides critical notes on other books dealing with rings. Here also appears a short but useful history of rings in general. The first part of the text volume describes many hundreds of rings which Henkel either personally examined or accepted what he believed to be authoritative descriptions from others. The rings are treated by class: metal rings, rings made from mineral materials, eg, rock crystal, chalcedony, schist and jet, rings made from the organic materials as ivory, horn and bone, and rings made entirely from glass. The results of investigations appear in the second part of the text in which Henkel also discusses the development of rings, their uses, evolution of special types, forms, significance, etc. He also includes much valuable information on the making of rings, the tools used, and other technical matters. The plates volume illustrates several thousand rings of every kind. One of the few really important publications in the field, and deserving of the praise which still continues. So far as I could learn, there has never been a translation into another language. Goodland, 273.

HENKEL or HENCKEL, JOHANN FRIEDRICH(1679-1744)

Ger mining engineer, mineralogist, geologist; b Freiberg, Saxony; obtained MD, practised for a short time, but abandoned medicine in favor of studies in earth sciences, metallurgy, chemistry; apptd counselor of mines by August II, King of Poland; noted for chem research on porcelain & analyses of vegetable substances; extensive personal mineral & fossil collection, eventually sent to St Petersburg; prolific writer. Pogg I, 1065; *Biogr Univ*, 20, 59-60; DSB 6, 259-60.

2882. -----1734 ...Idea generalis de lapidum origine per observationes experimenta & consectaria succinte adumbrata. Dresdae & Lipsiae, in officina libraria Heckeliana, 1734. 1 p, 1, 108(ie 92)p; nos 17-32 omitted in pag. 16 1/2 cm. Not seen: USGS Kunz Coll, GS 34-611.

2883. -----1744, Ger transl

D. Johann Friedrich Henkels, | Kön.Pohl. und Churfl. Sächs. Berg=Raths | Kleine | Mineralogische | und | Chymische | Schrifften, | Auf Gutbefinden des Herrn Autoris. | Nebst einer Vorrede von den | Bergwercks=Wissenschafften | zu Vermehrung | der Cammeral=Nutzungen, | und mit Anmerckungen herausgegeben | von | Carl Friedrich Zimmermann. | [orn rule] | Dressden und Leipzig, | bey Friedrich Henkel, 1744.

8°: [48], 619, [44], [1 blank]p;)(-)()()(^{8}, A-Hhh^8, Jii^4. Engrav pls; ch orns. 16.9 x 10 cm(6 5/8 x 4 in). Cut. USGS Library.

Cont: tp; pref; tab cont; text in 8 parts; index; corrigenda; blank p.

In this edition, Henkel sets forth his views on the formation of mineral materials, including coral and gemstones, all of it abundantly footnoted by Zimmermann. The modes of formation are (1) congelation, (2) concretion, (3) vegetation(coral, eg), (4) crystallization, and (5) petrifaction. He believed that durable minerals, specifically, gemstones, consisted of minute particles that grew together in masses or shapes that were structurally continuous and hence transparent and excluding water. He cites at length, as does Zimmermann, experiments by Boyle, the Emperor Francis I, and others on the heat treatment of gemstones in which reactions to intense heat are recorded for diamond, emerald, ruby, etc. Incidental information includes fossil resin of Saxony, 539-53, the famous topaz of Saxony, 554-65, and a green jasper with "hieroglyphic figures" 607-19 which may be graphic granite. Recorded by J Ferguson, *Bibl Chemica*, I, 386, with mentions of other edits of 1747 and Vienna, 1769, with biogr & bibliogr notes on Henkel & his works.

2884. -----1760, Fr transl

Idée Générale | De L'Origine | Des Pierres, | Fondée Sur Des Observations | Et Des Expériences. | Par M.J.F.Henckel, Docteur en Medécine, Conseiller des Mines | du Roi de Pologne, Electeur de Saxe, & de la Société de Berlin. | Avec des Remarques de M.Zimmermann. | Ouvrage traduit de l'Allemand.

Part of a larger work entitled: *Pyritologie... On Y A Joint Le Flora Saturnisans... Et Les Opuscules Minéralogiques...* Par M. Jean-Frederic Henckel... Ouvrages Traduits De L'Allemand. A Paris, Chez Jean-Thomas Hérissant... M.DCC.LX. [1760]. 5 engrav pls. 4°: p [393-4], 395-455; Ddd-Lll^4, with own title. 25.4 x 19.4 cm(10 x 7 5/8 in). Cut. Transl by Baron P H Dietrich de Holbach(1723-1789). "Sur le Succin fossile trouvé en Saxe," 497-500, "Sur une véritable Topase qu'on trouvé en Saxe, & qui n'est pas inférieure. l'Orientale," 500-3.

2885. HENNING VON DER OSTEN, HANS (1899-)

The ancient seals from the Near East in the Metropolitan Museum. Old and Middle Persian seals. *Art Bull*, 13, 2, 1931, 221-41, ill. Not seen.

2886. -----1934

The University Of Chicago | Oriental Institute Publications | Volume XXII | [rule] | Ancient Oriental Seals | In The Collection Of | Mr. Edward T. Newell | By | Hans Henning Von Der Osten | [univ logo] | The University or Chicago Press | Chicago, Illinois [1934]

8°: xiii, [1 blank], 204, [1], [1 blank]p + 41 photo pls on 41

f, bound-in; 28 fig(1 chart). Pale orange-brown cloth, dk brown buckram over spine, gold title, rule, logo. 29.8 x 23.2 cm(11 3/4 x 9 1/8 in). Cut. JSL.

Cont: series 1/2tp; 1/2tp; press data; tp; publ data; fwd; tab cont; ill list; abbrev list; introd; text; biblio(p 168-90, sev 100 entries); index of seal nos; general index; pls tp; pls.

Extensive, scholarly catalog that opens with a discussion of the several types of seals and the regions or cultures in which they were used, followed by the catalog of the collection in which the entries contain remarks on the motifs, objects, scenes, and persons depicted upon the seals, as well as identification of the material and dimensions. The catalog is relatively short and fills only Ch II, with the remaining chapters providing extensive notes on the seals and inscriptions. The bibliography is large. Good quality plates depict 695 seal impressions from stamp as well as cylinder seals. The gem materials include massive forms of hematite, serpentine, calcite, steatite, chalcedony, a number of igneous rocks, etc.

2887. -----1936

The University Of Chicago | Oriental Institute Publications | Volume XXXVII | [rule] | Ancient Oriental Seals | In The Collection Of | Mrs.Agnes Baldwin Brett | By | Hans Henning Von Der Osten | [logo] | The University Of Chicago Press | Chicago, Illinois [1936]

8°: xi, [1], 76 p + pl tp of 2 p + pls 1-12 on 12 f(166 gem photos). Orange-brown cloth, gray-brown spine buckram with gilt title & logo. 29.7 x 23.1 cm(11 3/4 x 9 1/8 in). Cut. Pale tan paper. LC 36-25523. JSL.

Cont: series tp; 1/2tp; tp; print data; to; publ data; fwd; tab cont; ill list; 5 chs; select biblio(p 62-70, ca 180 entries); index of seal nos; general index; pls tp; pls.

Describes 166 specimens, identifying materials, giving dimensions, and describing the subjects depicted on the seals. However, the catalog proper occupies only a minor portion of the work, the other chapters giving fairly full discussions of deities, heros, demons, priests, animals, monsters, trees, and others that appear in the designs. Small sketches are sprinkled throughout chs 3 and 4. Ch 5 gives inscriptions and their meanings and an index of names. This is a handsome, tastefully designed work.

2888. -----1957

Studia Ethnographica Upsaliensia. XIII | [rule] | Altorientalische | Siegelsteine der Sammlung | Hans Silvius von Aulock | Von | Hans Henning Von Der Osten | [warrior in green ink] | [rule]| 1957

4°: 234, [1], [1 blank]p + 8 glossy f, the last blank; 357 photos on 7 bound-in glossy f; 5 p of line sketches of seal styles; text diagr. Thick tan wrap, cover title. 30.6 x 23.5 cm(12 1/4 x 9 1/4 in). Cropped.

Cont: 1/2 tp; tp; publ data; tab cont; fwd; catalog; remarks; biblio (Ch 4, 156-219); index of seals; name & subject index; blank p; pls; blank glossy f.

The most important feature of this book is the very large and detailed bibliography which appears to be the most comprehensive ever assembled on the subject of engraved seals; it was the work of Hete von der Osten and includes comprehensive works(13), various collections, discoveries, special studies, etc (191-210, 462 entries); older works arranged chronologically.

2889. HENRICHSEN, HAROLD & HENRICHSEN, WINIFRED

Rocks | and | What To Do With Them | by | Harold And Winifred Henrichsen | from the collection of | Harold and Winifred Henrichsen | of Poulsbo, Washington, U.S.A. | Photographed by a special direct color process | by Ellis H.Robinson [Edmonds, LA: Ellison Industries, Inc, 1971]

Centerstapled: 64 p, ca 80 col photos. White wrap, col photo & black lett 21.4 x 14 cm(8 3/8 x 5 1/2 in), Cut. $2.00. JSL.

Essentially a picture album of cabochons, jewelry, and polished flats from the authors collection. Poorly prepared and not free of errors.

2890. HENRY, DAROLD JOHN(1911-)

California Gem Trails | A Field Guide For The Gem Hunter, The Mineral | Collector And The Tourist | by | Darold J.Henry, A.B., M.S. | [orn] | First Edition - 1948 | Price $1.50 | [orn] | Copyrighted 1948 | by the | The Mineralogist Publishing Company | 329 S.E. 32nd Avenue Portland 15, Oregon

Centerstapled: 63 p; 12 photos, 17 maps, 4 sketches, tab. Thick yellow wrap, title & sketches in black on cover. 23.3 x 15.3 cm(9 1/4 x 6 in). Cut. LC 48-17783. JSL.

Informal reminiscences and advice combined with instructions on how to reach collecting sites and what to find. The table at the end, p 60-3, lists localities and characteristics of materials found. This is the earliest guidebook of this kind to be written for any area in the United States.

2891. -----1952, 2nd edit, revised; not seen. LC 52-24485.

2892. -----1957, 3rd edit

California Gem Trails |... [12 lines] ...| Third Edition | $2.50 | Copyright by Lowell R.Gordon | July, 1957 | Publisher and Sole Wholesale Distributor | Lowell R.Gordon, 1810 E.Anaheim Street, Long Beach, California | No portions of this book... [2 lines]

Centerstapled: 101, [3 "notes"]p; 48 sketch maps(one on inside each cover). Pale brown wrap, brown cover title. 22.3 x 15 cm(8 3/4 x 5 7/8 in). Cut. LC 48-17783 rev. JSL.

Greatly enlarged, completely revised, new information & sites. Reprinted.

2893. -----1974, 4th edit

California Gem Trails | Fourth Edition |...[13 lines] [P [2] "Copyright 1974, Daniel L.Gordon"; np, Long Beach?]

Centerstapled: 96 p; 57 sketch maps(one inside fron cover). Pale green wrap, outline map & title in green on cover; localities tab back & inside back cover. 20.9 x 13.5 cm(8 1/4 x 5 1/4 in). JSL.

END OF CALIFORNIA GEM TRAILS

2894. -----1950

Gem Trail Journal | A Book Published In California's Centennial Year for the | Rock and Mineral Collector With Special Emphasis | Upon Gem Localities, Some New, Some Old. | A Field Guide to the Most Important | Areas in California. | by | Darold J.Henry, A.B., M.S. | [orn] | First Edition | $2.00 | [orn] | Copyrighted 1950 | by | Darold J.Henry | 1781 Fleming Street Pomona, California

Centerstapled: 69, [3 blank]p; 27 photos, 36 sketch maps, sketch. Red paper wrap, title, sketch & outline map of Calif on cover. 23.3 x 15.4 cm(9 1/8 x 6 1/8 in). Cut. JSL.

Many collecting sites in California: how to get there, what to find, tools recommended. Most sites in the desert regions. Gem materials include quartz varieties, petrified wood, geodes & thundereggs, fossils, also turquoise and calcite onyx.

2895. -----1952, 2nd edit, rev

Gem Trail Journal | Second Edition - Revised 1952 |... [14 lines] ... | Publisher and Sole Wholesale Distributor | Lowell R.Gordon, 1850 E.Pacific Coast Highway, Long Beach 6, California |...

Centerstapled: 93, [3]p; 6 photos, 1 sketch, 42 sketch maps(one inside each wrap cover). Bright green Wrap, map, title, etc on cover. 22.6 x 15 cm (8 7/8 x 5 7/8 in). Cut. JSL.

Completely revised, reset; new information, new maps, some larger than used before.

2896. -----1953

The Rock Collector's | Nevada and Idaho | By | Darold J.Henry | An Authentic Gem Trail Volume by | A Geologist Enthusiast Who Has | Been on Each Location Recently | [star] | First Edition | $2.50 | [star] | Copyrighted by | Darold J.Henry | in 1953, Box 801, Pomona, Calif. | Permission to reproduce any portion of this book | must be obtained from the author. | Publisher and Sole Wholesale Distributor | Lowell R.Gordon, 1850 E.Pacific Coast Highway, Long Beach 6, California

Centerstapled: 72 p; ink sketch inside front cover, 10 photos, 39 sketch maps, 3 text sketches. White wrap, title & outline map on cover. 23 x 15.3 cm(9 x 6 in). Cut. LC 53-3342. JSL. Similar to others.

2897. HENTZE, CARL. Les jades archaïques en Chine. *Artibus Asiae*, 3, 2, 1928- 1929, 96-110; 3, 3, 199-216; 4, 1, 1930-1932, 35-41; ill. Not seen; from C Denman, 1945, 121; Yang 1495, his collation differing slightly.

2898. HERBECK, A

Der Marmor | Zusammenstellung | Der Hauptsächlichsten | Marmorsorten Europas | Und | Einiger Überseeischer | Staaten | Bearbeitet Von | A.Herbeck, Wandsbek=Hamburg | 1930 | Im Selbstverlag Des Herausgebers

8°: 182, [1], [1 blank] p (p 170-82 adverts); 30 photos on 8 glossy f tip-ins; 2 col pls opposite p 173 & 178 in advert section. Reddish-brown marbled paper over bds, dull red cloth spine; black lett on cover; red cloth corners. 24 x 16 cm(9 1/2 x 6 3/8 in). Cut. JSL.

Cont: tp; text; marbles list & definitions; world sources; list of trade names, source, and text ref; adverts; publ data; blank p.

The text takes in decorative limestones as well as marbles; treats properties, sources, varieties, uses, etc on a worldwide basis, with indexes of marble names, types, companies supplying same, and other information that both extols the virtues of marbles and advertises members of the marble trade. Excellent illustrations, the two color plates showing many varieties produced by companies in Germany.

2899. HERBERT, IVOR

Ivor Herbert | The | Diamond Diggers | South Africa 1866 to the 1970's | [vignette] Tom Stacey [London: Tom Stacey Ltd, 1972]

8°: [4], 133, [1 blank], [3]p + p 137-138(misnumb) + [1 blank]p; 4 sketch maps, 25 photos on 8 bound-in glossy f(between p 92-3). Mustard brown cloth type paper over bds; gold spine title. Yellow & brown dj, Kimberley Mine photo; resume, vita, author portr. 21.6 x 13.5 cm(8 1/2 x 5 1/2 in). Cut. £2.50. ISBN 0 85468 151 5. JSL.

Cont: 1/2tp; other bks of author; tp; publ data; dedic & ackn; tab cont; ill list; sketch maps; 20 chs; biblio(p135-6, 51 entries); index.

The author, a journalist and scriptwriter, spent several winters in South Africa gathering material for this popular history of the diamond and its industry. It includes chapters on early discoveries, the pipe deposits, life on the fields, consolidation of pipe claims and formation of the cartel, the Boer War, Cullinan diamond, German mining in South West Africa, career of Ernest Oppenheimer, and the Finsch mine, among other topics. As a whole the book provides an interesting survey of events but presents little new material except that on the Finsch mine.

2900. HERBERT, STAN

[logo] | Diamonds | Stan Herbert | [logo] ["World Resources"; De Beers, London?; 1980; INDIAQUA 26, 1980, 3, 113 gives Hove: Wayland Publ Ltd]

Oblong 8°: 72 p; 83 ill. Col plasticized paper over bds; col photo front cover; b&w photo & other bks in series on back cover. 18.9 x 21.1 cm(7 3/8 x 8 1/4 in). Cut. ISBN 0 83450 763 0. £3.75. JSL.

Cont: pref; front photo; tp; publ data; other series bks & ackn; tab cont; 7 chs; statistics; drawing of pipe bodies; gloss; picture credits & sources; index.

The author is Press Officer for the De Beers Industrial Diamond Division and presents reliable information in a clearly written text. Treats history, romantic lore, diamonds in India & Brazil, discoveries & consequences in South Africa, Cecil Rhodes & Kimberley, status of mining today, genesis, properties, crystallography of diamond, mining & recovery practises, marketing, cutting, industrials. Good succinct account.

HERDMAN, WILLIAM ABBOTT (1858-1924)

Brit zoologist; b Edinburgh 1858; grad Edinb U 1879, later awarded hon degrees therefrom; demonstrator zool in univ 1880; prof nat hist Liverpool U from 1881; found several marine labs & research ctrs; FRS 1892; author of *Founders of Oceanography*, 1923; leading authority tunicata. Obit A E Shipley *Proc Linnean Soc London*, 137, 1925, 78-80.

2901. -----1903-1906

Report | To The Government Of Ceylon | On The | Pearl Oyster Fisheries | Of The | Gulf Of Manaar, | By | W.A.Herdman, D.Sc., F.R.S., | Professor of Natural History in the University of Liverpool. | [double-rule] | With Supplementary Reports | Upon The | Marine Biology Of Ceylon, | By Other Naturalists. | [double-rule] | Published At The Request Of The | Colonial Government | By | The Royal Society. | [rule] | London: | 1903 [-1906].

In 5 parts, each sep bound in uniform dull-red pebbled cloth, blind frames on covers, blind rules, gold lett spines; bright yellow endp. 29.8 x 23 cm (11 3/4 x 9 1/8 in). Cut. LC 20-1470. 4°s. First 4 vols JSL.

I: vii, [1 blank], 307, [1]p; 26 bound-in pls(1 col), 53 fig, 3 unnumb fig, map. Cont: tp; tab cont; pref; introd; text; Suppl Rpts I-VII.

II: vii, [1 blank], 300 p; 37 pls(5 tinted or col), 21 fig, 7 unnumb fig. Publ in 1904. Cont: tp; tab cont; pref; blank p; history of principal banks; anatomy pearl oyster; parasites; Suppl Rpts VIII-XVII.

III: viii, 384 p; 34 pls(10 tinted, 2 col). 21 fig. Publ 1905. Cont: tp; tab cont; pref; pearl fishery of 1904; present condit of banks; further rept on parasites; Suppl Rpts XVIII-XXII.

IV: xvi, 326 p; 33 pls(4 tinted, 2 col); 10 fig, 1 unnumb fig. Publ 1905. Cont: tp; tab cont; pref; pearl fishery of 1905; Suppl Rpts XXIII-XXX.

V: not seen but data from LC 20-1470: pref; pearl production; parasites; gen summary & recommend; Suppl Rpts XXXI-XLI; correct & addits.

The most thorough biological/fisheries investigation ever conducted on the pearl oyster beds and oysters in the Gulf of Manaar, Ceylon with the object of learning as much as possible about the pearly mollusk, its parasites and enemies, and its environmental co-existing organisms in order to better regulate this ancient industry and insure profitable harvests. The gemologist can learn much from this report in respect to the natural history of the pearl oyster but by far most space in these volumes is taken up by highly detailed examinations and delineations of organisms. Nevertheless, in the first part there is a history of pearling in general with specific reference to the Ceylon industry, with a table of pearl oyster production figures for fisheries held during the 19th century. This is followed by a narrative of Herdman's expeditions and a description of the Gulf of Manaar banks, a series of observations on the life-history of the oyster, and in the first supplementary report, a geological study of the nature of the sea floor upon which the oysters settle and grow. Part two contains a history of the principal banks, the anatomy of the pearl oyster, and a treatise on its parasites by A E Shipley & J Hornell. Part three provides an interesting history of the 1904 fishery in which much valuable detail is given on the modus operandi of pearl fishing and recovery of pearls, with photographs taken at the scene. This part includes a report on the 1904 fishery and more information on parasites. The fourth part describes the 1905 fishery, called "great" because of its high production of oysters. Part five, is of particular interest because of its data on pearl production and a general summary of results and recommendations on how the fishery should be conserved and regulated. The plates that appear throughout the volumes are almost all illustrative of anatomical details. In 1903, Herdman delivered an address, "The pearl fisheries of Ceylon," before the Roy Inst of Gt Brit, Mar 27, 1903, which was reprinted in *Ann Rpt Smithson Inst*, 1904, 485-93. As a result of his not inconsiderable fame Herdman also was asked to deliver other addresses along the same lines as noted below.

2902. -----1905

Address | Delivered At | The Anniversary Meeting | Of The | Linnean Society Of London | On the 24th of May, 1905, | By | Professor W.A.Herdman, D.Sc., F.R.S., | President Of The Society. | [rule] | London: | Printed By Taylor And Francis, Red Lion Court, Fleet Street. | 1905.

8°: [1], [1 blank], 13, [1]p; print wrap; 19.8 x 12.8 cm(7 3/4 x 5 in). Cut. On Linnaeus and artificial pearl formation.

2903. -----1908

Four Addresses | Delivered At | The Anniversary Meetings | Of The | Linnean Society Of London | In May 1905, 1906, 1907 and 1908 | By | W.A. Herdman, F.R.S. | President Of The Society | I.Linnaeus And Artificial Pearl Formation | II. Natural Pearl Formation | III. Some Fundamentals Of Sea-Fisheries Research | IV. Plankton Studies In The Irish Sea | 1908 [Cover title; USGS Kunz Coll, GS 34-417]

Cont: 1905, [1], [1 blank], 13, [1]p; 1906, [1] + p 18-29, [1 blank]p, dtd 24 May, 1906; 1907, [1], [1 blank], 18 p, 1 fig, dtd 24 May, 1907; 1908, [1], [1 blank], 25, [1 blank]p, 5 fig, dtd 24 May, 1908.

HERDMAN, W A, see CEYLON GOVT PEARL FISHERY REPTS

2904. HÉRITTE, Monsieur

The | Diamond | And Other | Precious Stones. | Monsr.Héritte, French Consul. | Cape Town: | Saul Solomon & Co., Steam Printing Office. | 1867.

16°: 32 p. 16 x 10 cm(6 3/8 x 4 in). Cont: title, text.

Written to satisfy a demand for information on diamond and prospecting for diamonds in the South African alluvial diggings, the author provides a very generalized treatise which could not have helped much even though most of the text is on diamond, p 5-21, with the remainder on other gemstones from corundum varieties to quartz. He perpetuates the use of the terms "oriental" and "occidental," with corresponding errors in species names, and also is guilty of other errors of fact despite his claim to having been a student of mineralogy "for the last eighteen years." The text seems to have been first published serially in the *Cape Argus*.

2905. HERMANN, A Edelsteine. [article in:] *Reallexikon für Antike und Christentum*, Herausgegeben von Th.Klauser u.a., Stuttgart, 1959, columns 505-52. Not seen; said to include a good bibliography.

HERMANN, BENEDIKT or BENEDICT FRANZ JOHANN(1755-1815)

Mine administrator; b Mariahof, Styria; to Russia in 1782 to direct iron works at Ekaterinburg; mbr Acad Sci St Petersb 1794-1801; apptd Imperial Dir Mines, Siberia in 1806; publ *Beiträge zur Physik, Oekonomie, Mineralogie, Chemie*, usw, emphasizing Russian news, 3 v, 8°, Berlin, 1786-88.

2906. -----1788-94 Vermischte chemische Bemerkungen aus Briefen an den Herausgeber [über Amethyst, Jaspis, Schörl, Turmalin und anderen Mineralien]. *Crells Chem Ann*, Helmstadt, 1788, Bd 1, p 325-6, 519-20; 1791, Bd 1, 341-6, 420-4; 1792, Bd 2, 233-5; 1793, Bd 1, 349-51, Bd 2, 152-3; 1794, Bd 1, 178-80. Not seen.

2907. -----1789 Versuch einer mineralogischen Beschreibung des uralischen Erzgebirges. Berlin & Stettin, 2 v. Said to be a miscellany which includes Siberian gemstones. Not seen. Agassiz III, 227(includes other notices of gemstones).

2908. -----1792 Ueber den sibirischen Beryll oder Aquamarin. Ibid, 1792, Bd 1, 291-318. Not seen.

2909. HERMANN, FELIX(1907-)

Felix Hermann | Diamanten | Ein Buch von kostbaren Steinen | Wien 1948 | [rule] | Donau=Verlag

8°: 135, [1 blank], [5], [3 blank]p; glossy pl of famous diamonds tip-in after title f. Pale gray-tan textured paper over bds, black cloth spine, gold lett cover & spine. 20.5 x 14.5 cm(8 1/8 x 5 3/4 in). Cut. Col dj, with diamond in gold crown on cover; resume, advert. JSL.

Cont: logo; 1/2tp; tp; publ data; pl; 13 chs; biblio(57 entries); tab cont; 3 blank p.

Written for the general public, this book on the diamond contains much that is informative and interesting: nature and occurrence of diamonds, properties, early history of diamond, curious lore, Indian and Brazilian diamonds, African deposits and mining, the rise of Cecil Rhodes and the creation of the diamond mining & marketing cartel.

2910. -----1949

Felix Hermann | Ingénieur Des Mines | [rule] | Les Gemmes | Et Les Perles | Dans Le Monde | Le Diamant. - La Perle. - L'Émeraude. - Le Rubis. | Le Saphir. - Le Grenat. - Le Lapis-Lazuli. - La Turquoise. | L'Aigue-Marine. - Le Chrysobéryl. - L'Améthyste. | L'Opale. - Le Jade. - L'Ambre. - Le Corail, Etc. | Genèse. - Symboles. - Magie. - Production Et Commerce. | Traduction Et Préface De L'Lamorlette | Agrégé Des Sciences Naturelles, Inspecteur D'Académie Honoraire | [logo] | Payot, Paris | 106, Boulevard Saint-Germain | [rule] | 1949 | Tous droits de traduction, de reproduction et d'adaptation | réservés pour tous pays. Copyright, 1949, by Payot. Paris

8°: 163 (first p blank), [2], [9 advert], [2 blank]p; tables. Tan wrap, green panel, Marie Antoinette necklace on cover; blue lett, blue frame, green frame; adverts back cover; spine title. 22.6 x 14 cm(8 7/8 x 5 1/2 in). Uncut. Frs 330. LC 49-51627. JSL.

Cont: blank p; other publ bks; tp; transl pref; tab cont; 12 chs; tab; biblio(28 entries); adverts; blank f.

A series of essays in popular style on the gemstones named in the title, plus other topics. There are many interesting anecdotes and the emphasis throughout is on the cultural rather than the scientific aspects. The bibliography contains a number of errors and incompletions. The works is stated to be a translation by Lamorlette, presumably from a German manuscript which may never have been published in its original language because I have not been able to find any reference to such a publication.

2911. HERMANN, ISAAC The art of cutting and polishing diamonds, introduced in New York in 1871, with illustrations from life, by I.Hermann... New York. Folder, (14)pp, illus., 16mo. 1885. Describes his work in New York as one of the earliest diamond cutters. Not seen.

2912. HERMANN, WALTER Über die Einwirkung oxydierender und reduzierender Gase auf die Färbung einiger Mineralien. in: *Zs anorg allg Chemie*, Hamburg, Bd 60, 1908, 369-404, 4 fig. Heated minerals, including gemstones, to ca 700°C and exposed them to gases as air, oxygen, illuminating gas, sulfur dioxide, hydrogen, nitrogen, and others, to determine color changes. Gemstones included green & brown zircons, amethyst, citrine, smoky quartz, hiddenite, topaz, tourmaline, garnets, beryls(and emerald), and epidote. Important.

2913. HEROLD, JULIUS Über die Ursachen der Achatbildung. Monzingen: priv publ, 1949, 27 p, 10 text fig. Not seen.

2914. HERON-ALLEN, EDWARD

O.V. | Miscellanies. | No.2. | Codex Chiromantiae. | By Ed.Heron-Allen. | [rule] | Appendix A. | [rule] | Dactylomancy; | Or, | Finger-Ring Magic, | Ancient, Mediaeval, and Modern. | [orn] | Imprynted by Bro^{r} C.W.H.Wyman | Typographer to ye Sette, at hys Printing-hovse in Great Qveene | Street, over against Lincoln's Inne Fields, within y^{e} | Parish of Saynt Giles in ye Fields | London, m.d.ccc.lxxxiij [1883; row of acorns at top, framed]

Centersewn with a red thread: [1], [1 blank], 32, [2]p. Ch orns, inits; an ornate frame on last p bearing in its opening the date "12.X.83." Pale green wrap. 14.3 x 12.3 cm(5 5/8 x 4 3/4 in). Uncut. JSL.

Cont: tp; limited edit statement; orn; presentation; quotes; text; poem; orn frame.

The Presentation reads "To Ye Sette of Ye Odd Volumes This Appendix To Opusculum VII. Is Presented As A Companion Miscellany To Opuscula IV. & VII. By Brother Ed. Heron-Allen, Ye Necromancer. 12.X.1883." And "this edition is limited strictly to 133 copies, and is imprinted for private circulation only. No.128 Presented unto... [signed by Heron-Allen with date, in ink]." A most interesting pamphlet which despite its small size yet represents considerable research into the curious lore of rings and the engraved gems and other gemstones set in them. There are abundant footnotes and references to old literature, especially on engraved gems. A long poem on turquoise, by Cecil Maxwell-Lyte, completes the work. Extremely rare.

2915. HERRERO, J F

J.F.Herrero | [rule] | Las Piedras Preciosas | en la Joyería | y en la Industria | [orn] | Exclusiva de venta: | Agencia Internacional De Libreria | Ancha, 13, entresuelo - Barcelona [nd, post 1930]

8°: [12 advert], 181, [1 blank], [1], [1 blank]p (first 2 p of text portion are blank); col pl of cut gems on glossy f tip-in after title; 73 fig; tabs. Originally in paper(?). 20.8 x 13.7 cm(8 1/4 x 5 3/8 in). Cropped. Paper yellowing, embrittled. JSL.

Cont: advert; blank f; 1/2tp; tp; publ data; pl; pref; text; blank p; tab cont; blank p.

A compendium of useful information for jeweler and lapidary: commerce and cutting of diamond, general data on diamond, famous stones, descriptions and properties of principal gemstones, colors in gemstones, table of specific gravities and how determined, hardness, optical characters, fusibility, weight systems, imitations & synthetics, industrial gemstones, the diamond industry in 1930, diamond cutting technique, glossary, miscellaneous notes, glass paste formulas, and a table of diamond weights versus dimensions. A remarkable feature: the author actually tells what laps or buffs and what polishing agents, etc, should be used to cut and polish specific gemstones. Many pertinent text illustrations but photographs are poorly reproduced.

HERRES, G, see FEMMEL, G

2916. HERRMANN, GEORGINA

Thesis submitted to the Faculty of Oriental Studies | for the degree of Doctor of Philosophy. | The Source, Distribution,

History and Use of | Lapis Lazuli in Western Asia from the earliest | times to the end of the Seleucid era. | by | Georgina Herrmann of St.Hugh's College | Volume I - Text [Vol II - Pls] August 1966

I: [1] + xxvii, 304 f; 1 text drawing, fold tab, fold sketch map(routes marked in col crayon) all tip-ins. Edgesewn. 25.3 x 20.2 cm(10 x 8 in). All single leaves, print verso only from typescript.

II: [2 blank f + title f + 55 pls. The first pl, inside front cover, contains a recess in thick cardboard in which are cemented four actual polished specimens of lapis lazuli, beneath them a caption giving source, and the whole covered with a transparent, colorless plastic sheet. Other pls include actual photo prints of the Sar-E-Seng, Afghanistan locality, also jewelry and objects made from lapis lazuli, and cut-outs from postcards and other published illustrations which portray lapis lazuli ornaments.

Contents in brief: Ch I, sources, geology, mineralogy, etc.; II, archeology; III, lapis lazuli: the literary background; IV, trade; summary; appendixes A,B,C; seal distribution chart. Undoubtedly the most complete monograph on lapis lazuli ever prepared but unfortunately, never formally published and probably only three or four copies were ever assembled. The present copy, only hastily examined, is in the possession of Mr Joel L Malter, dealer in Near-Eastern and other antiquities of Los Angeles.

2917. -----1968. Lapis lazuli - the earlier phases of its trade. *Iraq*, 30, 1968, 21-57. Not seen; DUBIN, L S, *History of Beads*, gives p 21-67.

2918. HERRMANN, MAX OTTO(1859-)

Gesteine für Architektur | und Skulptur | von | Professor Dr.O. Herrmann | Zweite, umgearbeitete und vermehrte Auflage des Anhanges | aus dem Werke des Verfassers | "Steinbruchindustrie und Steinbruchgeologie" | [rule] | Berlin | Verlag von Gebrüder Borntraeger | W 35 Schöneberger Ufer 12a | 1914

8°: XII, 119, [1]p. Print wrap. 24.5 x 17.2 cm(9 5/8 x 6 3/4 in). Cut and cropped. JSL. LC 15-6363; basic ref LC 17-19998.

Cont: tp; publ data; fwd; tab cont; abbrev; biblio(ca 45 entries); list of test facilities; list of factories; 3 text sections; append; tab of geol time; index; advert.

General review of stones and usefulness for structures and sculpture, suitable eruptive rocks, crystalline schists, and sedimentary rocks, with types and sources for many countries given.

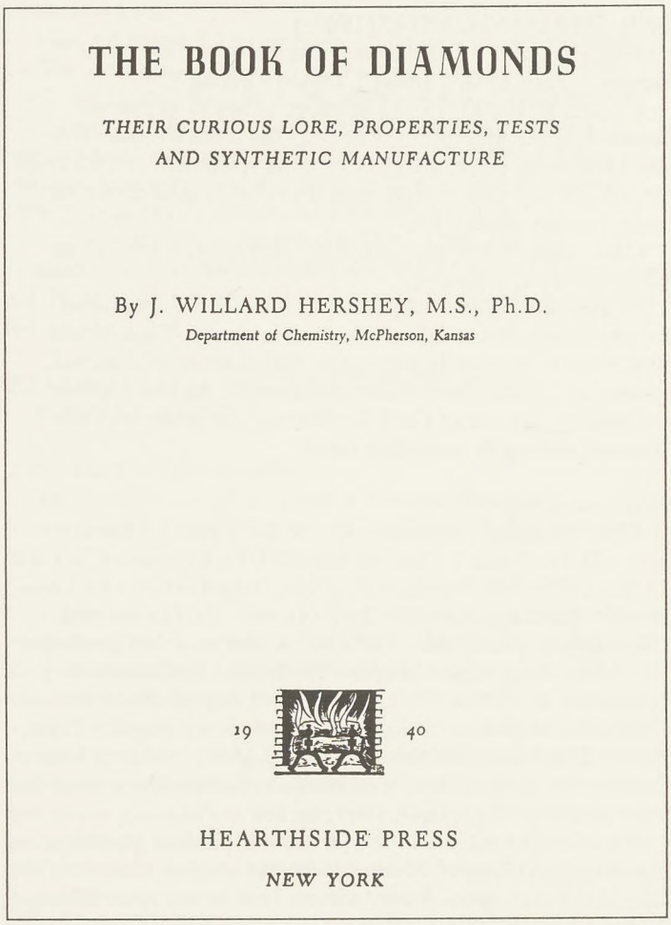
HERSHEY, JOHN WILLARD (1876-1943)

Amer chemist, tchr; b Gettysburg, PA; PhD U Chicago 1924; prof chem McPherson Coll, Kansas from 1918; publ several works on chemistry.

2919. -----1940

The Book Of Diamonds | Their Curious Lore, Properties, Tests | And Synthetic Manufacture | By J.Willard Hershey, M.S., Ph.D. | Department of Chemistry, McPherson, Kansas | 19 [logo] 40 | Hearthside Press | New York

8°: xii, 142, [6 blank]p; tip-in glossy col photo pl of cut gems front; 6 photos on 3 tip-in glossy f; 4 fig. Green, unfin cloth, gold cover title; title in green on gold spine panel with rules. Blue dj, title in black lozenge on silver panel; resume, advert. 23.7 x 15.5 cm(9 1/4 x 6 1/8 in). Cut. $2.00. LC



2919. Hershey's book was roundly condemned for claiming to have made diamonds by the discredited Moissan method

40-5572. JSL.

Cont: 1/2tp; pl; pl captions; tp; publ data; dedic; tab cont; fwd; 14 chs; index; 3 blank f. Also issued in green cloth, title, etc in black on cover & spine, col dj in green, gray, white, and without the color plate despite the caption leaf for same being allowed to remain!; no explanation was given.

One of the most interesting gemological works to be issued in modern times because of incorporating in its final chapter the method by which Hershey claimed to have made synthetic diamonds "at McPherson College for the last fifteen years." Hershey submitted specimens of his "diamonds" to the Gemological Institute of America laboratory in Los Angeles for test, the negative results of which were published in *Gems & Gemology*, vol 2, no 12, 1938, p 195-98. The method used by Hershey was essentially that employed unsuccessfully by Moissan, that is, plunging carbon-rich heated iron masses into a coolant to produce rapid quenching and presumably high pressures in the iron to induce crystallization of carbon into diamond. Aside from this last chapter, the remainder of text is a general account of gemstones other than diamond. In its review, *Gems & Gemology*, vol 3, no 5, 1940, p 73-4, states "It is our understanding that this book... had been withdrawn from publication. There is certainly ample reason... Doctor Hershey reveals himself as a rambling and erratic writer. He repeats, and in many cases contradicts,

himself. The book abounds in the most fantastic of errors." In his review, B W Anderson, *The Gemmologist*, vol 9, no 107, 1940, p 130-1, states "it is distressing that a work so inaccurate and badly written... should be published in these days when accurate information on gemstones is available to anyone who cares to seek for it." As a result of premature withdrawal, all copies of this work are scarce and those issued earlier with the color plate even rare.

2920. HERTING, SUSANNE & STRUNZ, HUGO
Jeremejewit von Cape Cross in SW.Afrika. *Der Aufschluss*, 29, 1978, 45-53, 7 ill(crystal drawings), 8 ref. Fine description of gem-quality blue crystals suitable for cutting small facet gems.

2921. HERTZ, BRAM
A | Catalogue | Of The | Collection | Of | Pearls And Precious Stones | Formed | By Henry Philip Hope, Esq. | Systematically Arranged And Described | By B.Hertz. | [rule] | London: | Printed By William Clowes And Sons, Stamford Street. | [rule] | August, 1839.

4°: vi, [1 blank], [1], 112 p; + 44 f(each otherwise blank f bears a litho cut-out pl pasted on, ca 21.5 x 19 cm(8 1/2 x 7 5/8 in: there are 42 pls numbered but pls 25 & 33 are doubled, hence the total of pls is 44). Large paper, perhaps a special issue: 37.4 x 27.2 cm(14 3/4 x 10 3/4 in). Uncut. Grayish-blue textured cloth, black spine label with gold lett & rules.

Cont: tp; introd; blank p; tab cont; catalog; blank p; append; pls.

After a brief introduction on the history of gems and a description of the cabinets housing the collection, Hertz gives a series of short but adequate descriptions of the various gems and small ornamental objects in the collection, arranged according to species and variety. The lithographic plates are line drawings, delicately executed & shaded, showing the specimens in natural size. Outstanding is the enormous baroque "Hope Pearl," Plate I, "offered for sale in 1974 for $200,000 " according to Susan Patch, *Blue Mystery*, 1976, p 23, as well as the famous Hope Diamond which now reposes in the Smithsonian Institution and which Patch treats in her book, just cited. Another magnificent piece is the completely faceted aquamarine sword handle, Plate XV, which is said to have belonged to Marshal Murat (1771-1815). Henry Philip Hope(d 1839) was a London banker and requested that Hertz, also an avid collcctor, catalog his collection, with the result seen here. The information and drawings are accurate and form a valuable record of several important gems, especially the Hope diamond. The present version of this catalog may be a special issue on large paper with the plates separately printed on much thinner paper of a slightly grayish cast. The plates are cemented & pressed so firmly that one can scarcely detect the edges. It is far scarcer than the usual version in which the plates are printed directly upon single leaves. Useful remarks on Hertz, Hope, and the collection are provided by M O'Donoghue in *J Gemm*, 12, 1, 1970, p 1-5, in which he provides prices paid by Townshend for many of the pieces which eventually passed from Townshend into the Victoria & Albert Museum, London.

2922. -----1851 Catalogue of the collection of Assyrian, Bablyonian, Egyptian, Greek, Etruscan, Roman, Indian, Peruvian and Mexican Antiquities formed by B.Hertz. London. 1851. 4°, (12), 156 p with 6 engrav pls. Mssive collection of ancient art including Aztec mosaic masks... [etc]. Not seen: from Sims, Reed & Fogg, London, Cat 60, 1984, no 92. According to Edward Gerhard, in Sotheby & Wilkinson *Catalogue of the Celebrated and Well-Known Collection... B.Hertz*, 1859, "this catalogue was chiefly compiled from a learned work undertaken at the instance of the owner of the collection by Dr.W.Koner of Berlin, who, however, could not prolong his stay in London until the completion of the catalogue." For this same work, Marlborough Rare Books, London, Cat 108, 1984, no 99 gives 4to, iv pp, 4 ff, 156 pp...London, for the Author, 1851."

2923. -----1859
Catalogue | Of The | Extensive Collection | Of | Assyrian, Babylonian, Egyptian, | Greek, Etruscan, Roman, Indian, Peruvian, Mexican, And Chinese | Antiquities And Articles Of Vertu, | Formed By | Bram Hertz, | Corresponding Member Of The Archaeological Institute At Rome; | With The | Prices And Purchasers' Names; | Preceded By The | Descriptive Analysis, | Published In The Berlin Archaeological Zeitung, By | Edward Gerhard, | Co-Director Of The Archaeological Institute At Rome. | London: | Printed For J.H.Burn, XXIX, Bow Street, Covent Garden, | MDCCCLIX.

8°: [8], xxiv, 213, [1 blank]p + bound-in wrap cover + 45, [1]p; front grav portr pl, tissue. 25.2 x 16.2 cm(9 7/8 x 6 3/8). Fe & be untrimmed. JSL.

Cont: orig print wrap cover; 1/2tp; pl; tp; catalog tp; sale conds; index of cont; days of sale; transl of Gerhard's extract; auctioneers; note; catalog; blank p; prices received title; price list; daily sales totals; other catalogs sold by publisher.

A curious assemblage of the original sales catalog (see description under Sotheby & Wilkinson, 1859), with additional half-title which states that the Hertz Collection belongs to Joseph Mayer of Liverpool, and a new full-title as given above, and also includes a special list of the lots sold and their purchasers. This list has its own title on a bound-in wrapper cover! The fine portrait is of Mayer with his facsimile signature. It is noted that the printer of the price list and additional titlepages is J H Burn, which is not the printer for the original catalog. See also, MAYER, JOSEPH, 1859.

HERTZ, B, see GERHARD, F W E.

2924. HERTZKA, GOTTFRIED & STREHLOW, WIGHARD
Gottfried Hertzka/Wighard Strehlow | Die Edelsteinmedizin | der heiligen Hildegard | [logo] | Verlag Hermann Bauer | Freiburg im Breisgau [1985]

Cementb: 164, [3], [1 blank]p; 24 col photos on 6 glossy f not includ in pag. Col wrap, resume. 20.3 x 12.5 cm(8 x 4 7/8 in). Cut. ISBN 3-7626-0294-8.

Cont: 1/2tp; tp; publ data; tab cont; fwd; introd; text; append & tab; addresses; index; other publ bks; blank p.

Comparing extant Hildegard von Bingen MSS enabled the authors to provide what appears to be the most faithful rendition of the section in her *Physika* dealing with the healing powers of gemstones, the latter ranging from agate to topaz, 20 in all. In the appendix are also alabaster, chalk, lodestone, and pearl. Each mineral is given its translation from Hildegard, plus a commentary by the authors. See also under HILDEGARD VON BINGEN.

2925. HERVE, F L'huître perlière et la perle dans les lagons de l'Archipel des Tuamotu. *Notes Inst Océanogr Indochine*, Nhatrang, 1936, 29, 73-196. Not seen.

2926. HERZ, GUSTAVE L

Gemoscopia | A Corporation Of | New York | Apparatus | For The | Examination | Of | Pearls | & | Precious | Stones | Gustave L.Herz | Civil Engineer | New York | Vienna [1927; wrapper title only]

8°: 40 p; glossy paper, folded single gathering, unfastened, but with 3 holes for insertion into a looseleaf notebook; 32 photos & line cuts. 18.5 x 11 cm(7 1/4 x 4 3/8 in). Cut, corners rounded. Printed in brown ink, ills in black. $1.50. USGS Kunz Coll.

Cont: cover title; publ data inside cover; pref; text; advert inside & outside back cover.

Describes and pictures the elaborate, carefully-made gemological apparatuses and accessories sold by the company.

HERZ, P L, see KRAUSE, H, et al, 1942

2927. HERZFELD, ERNST Ausätze zur altorientalischen Archäeologie. I.Geschichte und Vorgeschichte. II.Stempelsiegel. *Archäologische Mitt aus Iran*, Berlin. Bd 5, 1933, 49-103, 1-124. Not seen.

HERZFELD, M, see MENZHAUSEN, J, 1968,

HESS, F, see BERNEWITZ, M W v

2928. HESS, SEBASTIAN According to P&H Zazoff, *Gemmensammler*, 1983, 169, a *Daktyliothek*, or collection of engraved gem casts was issued by Hess in 4 caskets with accompanying text, in German, printed by Ignaz Alberti, Wien, 1792.

2929. HESSLING, THEODOR VON(1816-1899)

Die | Perlmuscheln | Und | Ihre Perlen | Naturwissenschaftlich Und Geschichtlich | Mit Berücksichtigung | Der Perlengewässer Bayerns | Beschrieben | Von | Theodor Von Hessling. | [orn rule] | Mit Acht Tafeln Und Einer Karte. | [orn rule] | Leipzig | Verlag Von Wilhelm Engelmann. | 1859.

8°: VIII, 376 p; tip-in col litho front pl; 7 other litho pls colored in part or uncol; fold map, part col; 2 fold tab. 24.2 x 16.8 cm(9 1/2 x 6 5/8 in). Cropped. JSL.

Cont: tp; pref; tab cont; introd; text; 11 suppls; pl explan; fold tabs; pls.

The first part, in three sections, treats marine pearly mollusks of the genus *Avicula*, the freshwater mussels of the genus *Unio*, and the anatomy and physiology of freshwater pearly mussels. The second part contains five chapters devoted to the physical, chemical and structural properties of pearls, the formation and growth of pearls, trade, weights used, cultured pearls, and natural methods for increasing the production of pearls. The introduction reviews the use of pearls from antiquity in various lands and cultures and is particularly valuable in that it cites many traveler's accounts of voyages in China, India, Middle East, Egypt, etc, and then explores the use of pearls in Europe and elsewhere, mentioning very large pearls, pearls in crown jewels, and other matters. The text is rich in references and introduces much historical and cultural data which the author took great pains to assemble. The second part of the pearls themselves is especially useful, being filled with detailed data supported from authoritative sources. A special feature is the inclusion of trade statistics on pearls, and an exceptional discussion of pearl nomenclature in all languages, ancient and modern, and a comprehensive study of the weight systems used in the pearl trade, with nomenclature. Another major feature of this remarkable work is, of course, the description of the freshwater pearl industry in Bavaria, which treatment includes history, directives governing fishing(in the supplements), production, conservation measures, cultural history of the region, and other topics. This is one of the very few books on pearls worthy of serious study, being virtually an encyclopedia of information then extant. The excellent plates depict anatomical structure of mussels, exteriors, and details of pearl structure, while the folding map shows pearling areas in Bavaria with colored outlines to show underlying geological formations. Rare.

2930. HESTER, THOMAS R

Archaeological Studies of Mesoamerican Obsidian | Assembled and Edited | by | Thomas R.Hester | Ballena Press | P.O.Box 1366 | Socorro, New Mexico 87801 | U.S.A. [1978, date from advert]

"Ballena Press Studies in Mesoamerican Art, Archaeology and Ethnohistory No.3, Editor: John A.Graham." [from cover]

Cementb: [2 blank], [2], iii, [1 blank], 210, [6 blank]p; many fig, photos, maps. Pale blue printed wrap, title with obsidian artifacts line drawing on cover & series title; other publ back cover. 29.2 x 21.2 cm(11 1/2 x 8 3/8 in). Cut. $9.95. ISBN 0-87919-082-5. JSL.

Cont: blank f; tp; ISBN; tab cont; pref; 5 chs; 3 blank f.

Contains 17 articles by various authorities; 4 in Ch 1 deal with the well-known occurrences in Guatemala and Mexico; Ch 2 contains 3 articles on working up obsidian into weapon points, implements, ornaments, etc; Ch 3 has 6 articles on the technology of obsidian; Ch 4 with 4 articles on trace element analysis. The 5th ch is bibliography, p 200-10, 107 entries.

HEULAND, HENRY, collection of, see LÉVY, A

l'HEUREAUX, JEAN, see MACARIUS, J

HEUSSER, JACOB CHRISTIAN(1826-) & CLARAZ, G

J C H b Switz; PhD U Berlin; 1857 sent on mission to Swiss colonies in Brazil by Swiss Govt; author tracts on crystallography. Pogg I, 1098-9.

2931. -----1859 Ueber die wahre Lagerstatte der Diamanten und anderer Edelsteine in der Provinz Minas geraes in Brasilien. *Zs Dt Geol Ges*, Stuttgart, 11, 1859, 448-66, with "Bemerkungen..." by G Rose, 467-72. On the basis of personal examinations in the diamond-producing regions in Minas Gerais, Brazil, the authors provide detailed descriptions of the rocks in which diamonds occur, also other gemstones as tourmaline, topaz, euclase, andalusite, etc, and conclude that a hornblende schist is the rock from which the diamonds and other gemstones came. No mention is made of other rock types, eg, granitic pegmatite. The associates of precious topaz in the Ouro Preto area are mentioned but their occurrence is not clearly described. Rose's comments correct identification errors in the rocks and minerals

collected. Extract: Delesse, *Ann Mines*, Paris, 5 ser, 17, 1860, 289-99; Gonsalves, 97.

2932. HEYER, JUST CHRISTIAN HEINRICH (1746-1821). Chemische Versuche mit Bernstein [von] Just Christian Heyer und Ueber Aquamarine und Topaz [von] Johann Carl Wilhelm Voigt. Erfurt, G.A.Keyser, 1787. 24 p. "Papers presented before the *Akademie Nützlicher Wissenschaften zu Erfurt*, in 1786." Not seen: from Ward & Carozzi, 1061; BM(NH) Cat gives "*König.Akad.Gemeinnutziger Wissenschaften. Acta*, etc., 1786-87. 4to. 1787."

2933. HEYNE, CHRISTIAN GOTTLOB(1729-1812) De gemmis astrologicis et magicis inter amuleta habitis. Epimetrum V., 256-72, in his *Opuscula Academica Collecta et Animadversionibus Lucupletata*, Vol Vl, Göttingen, H.Dietrich, 1812. Remarks on engraved gems inscribed with astrological/magical symbols, etc, and citing many authors and some who wrote on this same subject. Heyne, b nr Chemnitz, was a noted Latin and classical scholar at U Göttingen; *Biogr Univ*, 10, 346-58.

2934. HIBBERT, DAWN L; LEA, TONY & KURZ, FRITZ

Gemstones & Minerals | of Australia | Dawn L.Hibbert Tony Lea Fritz Kurz | [circ photo crocoite crystals] [Cover title; first publ 1968, reprinted 1969...Horwitz Publications...2 Denison Street, North Sydney 2060...]

Centerstapled: [32]p, 79 col photos, sketch map of Australia inside back cover. Stiff wrap, title on cover. 24 x 18.4 cm(9 1/2 x 7 1/4 in). Cut. Aus $1.25.

Trivial, consisting mostly of color photographs, many of poor quality, strung along with brief remarks of little value; some photos misleading in hue.

HIBSCH, JOSEF EMANUEL(1852-1940)

Ger geol, petrographer; prof nat hist Pilsen & prof mineralogy, geology, etc; many local geological travels, published numerous accounts of the geology & mineralogy of the Bohemia Mittelgebirge. NDB 9, 104; Pogg 6, 1114-5.

2935. -----1920

Geologische Karte | Des | Böhmischen Mittelgebirges. | [rule] | Blatt XIV (Meronitz-Trebnitz) | Nebst Erlauterungen. | [rule] | Von | Dr.J.E. Hibsch. | ...[4 lines]...| Mit Einer Geologischen Karte Und 17 Abbildungen Auf 2 Tafeln. | [rule] | Prag, 1920. | Verlag Der Gesellschaft Zur Förderung Deutscher Wissenschaft, | Kunst Und Literatur in Böhmen. | In Kommission Des Sudetendeutschen Verlages | Franz Kraus | Reichenberg.

8°: [2], 120 p; fold col geol map(62 x 66.6 cm(24 3/8 x 26 1/4 in)), fold geol sketch map, fold pl(crystal cross-sections). Print wrap. 24 x 16 cm(9 1/2 x 6 1/4 in). Uncut. JSL.

Describes geology & mineral resources, Meronitz-Trebnitz region, Bohemian Mittelgebirge in Czechoslovakia, noted mainly for production of gem quality pyrope garnet, to which much attention is paid, especially p 96-102, where production, early mining, modern mining, values, etc are treated. Other gemstones include facet grade aragonite crystals, moldavites, and small corundum crystals found in gravels. Fine large colored map.

2936. -----1926 Das Granatenbergel bei Meronitz und die "böhmischen Granaten." Bilin(Museumgesellschaft), 1926, 20 p. Occurrence and winning of gem pyrope near Meronitz; includes historical notes. Not seen.

2937. -----1934

Die Minerale | des | Böhmischen Mittelgebirges | Von | Professor Dr. J.E.Hibsch | Wien | Mit 31 Abbildungen im Text | [logo] | Jena | Verlag von Gustav Fischer | 1934

8°: X, 196 p, 31 fig. Orange wrap, title on cover. 24.5 x 16.6 cm(9 5/8 x 6 5/8 in). Uncut. JSL.

Includes the following gemstones: diamond(two occurrences),corundum, chalcedony, jasper, opal, aragonite as clear crystals from Horschenz, pyrope, and moldavite. References 180-89, 249 entries.

HIDDEN, WILLIAM EARL(1853-1918)

Amer mineralogist, miner, mineral dealer; early career as engraver for a bank note company but remainder of life spent in the field as prospector, miner, and collector, esp in North Carolina; the Cr-green var of spodumene from NC named "hiddenite" in his honor; publ many short articles on minerals & gemstones. Biogr notes, etc: G F Kunz, *Amer Min*, 4, 8, 1919, 100 & 10, 128-9, 11, 142-5; *Min Mag*, 18, 1919, 395; *The Mineralogist*, 9, 8, 1941, 291, 305, 306; *R & M*, 42, 8, 1967, 593-4.

2938. -----1889 Addendum to the minerals and mineral localities of North Carolina. *J Elisha Mitchell Scientific Soc*, 6, 1889, 1-35, 3 pls, 8 fig. JSL. Brief descriptions, localities for diamond, emerald, aquamarine, hiddenite, pyrope, almandine, and quartz.

HIDDEN, W E, see AMERICAN PROSPECTING AND MINING CO; also JUDD, J W

HIEBNER, ISRAËL, see SCHNEEBERGK, I H VON

2939. HIERN, M N [Opal deposits, South Australia.] South Australia, Department of Mines, *Mining Review*, no 122, 5-27 (Coober Pedy), 33-36(Mintabie), 37-39 (northern South Australia), 40-42 (Myall Creek Sta.). Not seen.

HIGGINS, R A, see HEINIGER, E A & J

2940. HILD, HERMANN

Glanz | und Geheimnis | edler Steine | [to left:] Hermann Hild | Universitäts- und Schulbuchverlag GnbH, Saarbrücken [1936]

8°: 132 p; 15 photos, 14 in col, on 4 tip-in glossy pls. Pink, unfin cloth, with magenta lett on cover & spine. Pale tan endp. Brown & white col dj, overall photo of engrav gem with white lett; resume, other publ bks. Also in paper wrap(JSL). 19.5 x 13.4 cm(7 3/4 x 5 1/4 in). Cut. DM 18.50, paper 17.

Cont: 1/2tp; tp; publ data; tab cont; photo credits; quot; fwd; 9 chs; biblio(p 132, 20 entries).

The title accurately reflects the contents of this popular treatise on the splendor and "secrecy" or curious lore of gemstones. Aside from a little introductory geology and mineralogy, the text describes important species, German gemstones and the gem industry in that country, imitations and synthetics, and a final chapter devoted entirely to lore. Interesting & entertaining.

Handsome production, outstanding color photos of rough and cut gemstones. Rev by W Lieber, *Der Aufschluss*, 15, 1, 1964, 27 - "small, but lovingly written, of a special kind, speaking not of chemical and physical properties but only of the love of mankind for gemstones and belief in their supernatural powers from earliest times to the present."

HILDEGARD VON BINGEN, Saint (1098?-1179)

Benedictine nun, noted for early scientific and medicinal studies, and writings on natural history subjects, medicine, visions, etc; became Abbess St Rupert's Mount(Ruprechtsberg) nr Bingen am Rhein. She is occasionally mentioned in discussions of medieval lapidaries because of her writing on precious stones, her principal work being accessible in J P Migne's *Patrologia Latina*, vol 197, Paris, 1855, reprint in facsimile by Usines Brepols, S A, Turnhout, Belgium; see also transl & comment on medicinal gemstones of Hildegard by Hertzka & Strehlow, 1985. In the *Patrologia* is to be found her "Subtilitatum Diversarum Naturarum Creaturarum libri novem," edited by Dr C Daremberg, and containing in Bk IV, columns 1247-66, the "De Lapidibus," in which are treated 26 gemstones and stones, including all the major species, several varieties of quartz, the pearl, and marbles. Another commentary by P Riethe, "Hildegard von Bingen," *Das Buch von dem inneren Wesen der verschiedenen Naturen in der Schöpfung*, Salzburg, 1959. This last contains selections and includes those on gemstones. An earlier work with substantial material on Hildegard's gemstones and metals is H Fischer's *Die Heilige Hildegard von Bingen. Die erste deutsche Naturforscherin und Ärztin*, München, 1927, esp p 447-55 where he examines the nature of her information on gemstones and suggests sources from which it was obtained, noting that much of it was ultimately derived from the Bible. A full discussion of Hildegard and her works is also found in Thorndike, *History of Magic*, 2, in which an entire chapter, p 124-54 is devoted to her writings, esp earlier editions; gemstones are mentioned. See also CREUTZ,R. A 1535 edit of Hildegard's *Physica* is described in 420, p 101, *Hoover Coll Min & Metallurgy.*

2941. -----1979

Hildegard Von Bingen | Das Buch | Von Den Steinen | Nach Den Quellen | Übersetzt Und Erläutert Von | Peter Riethe | Otto Müller Verlag Salzburg [1979]

8°: 102, [1], [1 blank]p; 2 b&w ill; 24 col photos in text. Brownish-orange unfin cloth, gold quartz crystals in frame on cover; gold spine title in small panel on spine; col dj, resume, agate photo front. 22.7 x 15.7 cm (8 7/8 x 6 1/8 in). Cut. Dm 49.- ISBN 3-7013-0593-5. JSL. Reprinted 1986.

Cont: 1/2tp; tp; publ data; dedic; tab cont; fwd; 7 chs; notes; col ill list; biblio(p 99-103, 89 entries); blank p.

A translation into German of Hildegard's book of stones based on the Parisian MS(=Migne's, *Patrologia Latina*). The translation, however, limits itself to the properties of gemstones and medicinal and magical effects upon the mind and body. Prior to this are provided discussions of the natural history & medical work of Hildegard, the early origins of same, the sources for the book of stones (Pliny & Marbod are most favored), the properties of stones according to Hildegard and their medicinal/magical properties. The main text gives translations of Hildegard's preface and her 26 chapters on stones, from emerald to relatively common stones as alabaster, calcite, and several others lumped together in a final, very brief chapter. Numerous notes to these portions are provided by Riethe as well as a list of color photo illustrations of the stones believed to be those referred to by Hildegard and a bibliography of principal and secondary sources which provide a good basis for any study of the medieval knowledge of gemstones. The color illustrations are generally adequate if rather dull in respect to color intensity and truth, and some have not been checked for accuracy, eg, the mineral titanite (sphene) offered as Hildegard's "lyncur," p 68, which seems very unlikely.

2942. HILL, GERTRUDE FRANCES The use of turquoise among the Navajo. Ysleta, 1939. Not seen, above from a bookseller's catalog of 1980 which further states "1 of 200 copies ptd by Edwin B Hill. Orig. stiff wraps. 15, (1)p."

HILL, G F, see HAMMONS, L, 1975

HILL, J0HN(1716-1775)

B Spaulding, Engl; resided London where he flourished as an apothecary, botanist, actor, gardener, and prolific author, esp on natural history subjects. Dr Samuel Johnson(1709-1784) stated (in Boswell) that "Dr. Hill was a very curious observer; and, if he would have been contented to tell the world no more than he knew, he might have been a very considerable man, and needed not to have recourse to such mean expedients to raise his reputation," here referring to the Hill's highly-publicised and criticised *Review of the Works of the Royal Society of London*, 1751, in which he ridiculed the society, presumably because he was denied membership due to his faulty character. Contemporaries also found fault in his assumption of the title "Sir" as a result of having received the Order of the Polar Star, or Vasa, from the King of Sweden, to whom he had presented a copy of his *The Vegetable System*, 1795-76, 28 volumes. More information on Hill and his works is provided in a footnote, p 200, vol 9 of *The Philosophical Transactions of the Royal Society... Abridged*, 1809: "John Hill, an ingenious English writer, and a celebrated botanist... was bred to the business of an apothecary, which he carried on for some time in St. Martin's Lane. His first publication was a translation of Theophrastus's Tract on Gems, which procured him a great reputation. This induced him to undertake a general Natural History in 3 vols.folio. He then became a kind of general writer. He published a Supplement to Chambers's Cyclopedia, and other works. Soon afterwards he obtained the degree of M.D.; and being patronised by the Earl of Bute, continued his botanical labours under the title of the Vegetable System ... Being offended at the treatment he met with in the R[oyal]. S[ociety]., of which, on application, he was not admitted a member, he took his revenge by publishing what he termed a Review of the Royal Society... He possessed quick and lively parts, with a considerable degree of taste for natural history, and particularly for botany; but his pursuits were so varied, that he did not always allow himself the time necessary for the composition of works of science; hence some of his writings in natural history do not possess all the accuracy that could be desired." See also Allibone, 1, 846; Pogg I, 1104; DSB 6, 400-1.

2943. -----1748

A General | Natural History: | Or, | New and Accurate | Descriptions | Of The | Animals, Vegetables, and Minerals, | Of the Different | Parts of the World; | With | Their Virtues and Uses, as far as hitherto certainly | known, in Medicine and Mechanics: | Illustrated | By a General Review of the Knowledge of the Ancients, and the | Discoveries and Improvements of Later Ages in these Studies. | Including | The History of the Materia Medica, Pictoria, and | Tinctoria, of the Present and Earlier Ages. | As Also | Observations on the neglected Properties of many valuable Substances known at present; | and Attempts to discover the lost Medicines, &c. of former Ages, in a Series of Critical | Enquiries into the Materia Medica of the Ancient Greeks. | With | A great Number of Figures, elegantly engraved. | [rule] | By John Hill. | [rule] | London: | Printed for Thomas Osborne, in Gray's-Inn, Holbourn. | [rule] | M.DCC.XLVIII. [1748; in 3 vols]

Vol I: "A History of Fossils," which is described below; II: "A History of Plants," 1751, not described; III: "A History of Animals," 1752, not described.

Vol I: 2°: [12], 654, [6]p; pi^2, A^2, a^2, B-Mmm^2,(4)O-(7)I^2. (6)A-(6)C^2, (6)D-(8)E^2. This curious collation is due to the employment of different printers as noted in the Index, wherein the reader is requested to note the asterisks for repeated pages; see also note on p [xii]. Actually the pagination goes: p 1-228 (B-Mmm^2), 333-592(4)O-(7)I^2), then p 457-66((6)A -(6)C^2 with page 367 commencing on the last f of 6C, then continuing

tp p 654 and including the unpaged index (6D-8E^2), 12 engrav pls, tip-in; fold tab inserted before index. 35 x 22.5 cm(13 7/8 x 9 in). Ward & Carozzi 1068; Hoover Coll 421.

Cont: 1/2tp (A History Of Fossils); tp; cont to the vols; dedic; pref; directions to binder; text; fold tab; index.LC 11-32950; Agassiz III, 241.

In this volume, Hill sets forth his system of mineralogy and provides a summary of its features upon the folding table. It is predicated on use of Latin names as in the Linnaean or "natural history" system and received considerable attention from A H Chester, *A Dictionary of the Names of Minerals*, 1896, ix, who described the main points but remarking that "this system never came into general use, and Hill himself gives it up and adopts one much more simple in his later work entitled 'Fossils Arranged according to their Obvious Characters,' London, 1771." The work is divided into three parts, each containing several books, plus an appendix which deals with true fossils, or "extraneous," as they were then called, with the term "fossil" referring generally to all materials dug up from the ground. Minerals, rocks, and earths are treated, with gemstones mentioned many times and described in detail in several places. Under the heading of "Crystals" appear quartz, topaz, and beryl, p 154-92. Amber is described on p 409-10, jet on p 413-4, and marbles and porphyries on p 461-500. Other sections are enhydros, 544-5, ornamental puddingstone, 557-73, jaspers, 573-92, and a rather full treatment for chalcedonies, called "semipellucid gems," 457-504. Diamond, garnet, amethyst, beryl, emerald, opal, etc, are treated on p 585-601. The engraved plates, rather sketchily done, depict minerals upon five of them and true fossils on seven. Hand water-colored copies have been seen but I have not been able to prove to my own satisfaction that such were issued officially or colored privately later; several are known to me which suggests some sort of concerted and possibly authorized undertaking.

2944. -----1771

Fossils | Arranged | According To Their | Obvious Characters; | With Their | History And Description; | Under The Articles Of | [on left, in column:] Form, | Hardness, | Weight, | [2 vert rules separating similar column to right:] | Surface, | Colour, And | Qualities; | The Place of their Production, | Their Uses, | And | Distinctive English, and Classical Latin Names. | [rule] | London: | Printed For R.Baldwin, in Pater-Noster Row; | And P.Elmsley, In The Strand. | [rule] M.DCC.LXXI.

8°: viii + p 9-420+[16]p. 28 x 13.1 cm(8 1/4 x 5 1/8 in). Cropped. JSL; Ward & Carozzi 1071. GS 5-444. Agassiz III, 241.

Cont: tp; introd; text; fold tab of spars bound-in at p 122; index; directions to binder.

The basic classification scheme was already present in his previous work above, but as Hill states "I have had the advantage of more than twenty years experience since... many Species to add, which were not known at all at the time; and several to retrench" (p viii). The "obvious" in the title is significant because Hill manages to put together several strange bedfellows which may seem similar externally but are actually far apart compositionally, eg, talcs and micas, orpiment and graphite, etc. Of special gemological interest is Class V., Gems, p 137-49, described in general terms as "hard, bright, sparkling; in small angulated masses; composed of fine Plates." A brief commentary precedes the tables which include diamond, emerald, sapphire, topaz, chrysolite, hyacinth and garnet. Following the contemporary misconception, and reflecting widespread prejudice against the relatively new Brazilian diamonds, the latter are carefully distinguished from "oriental diamonds" in a lengthy footnote in which they are stated to be less hard, lower in specific gravity, can be melted in a flame(!), and can only be torn into flat flakes. As before, unrelated species are also placed together among the gemstones. Elsewhere in the text are to be found (via the good index) amber, opal, enhydros, jet, and others. Less popular than his other works, this book is considerably rarer.

2945. -----1780

A | Review | Of The Works Of The | Royal Society of London; | Containing | Animadversions on such of the Papers | as deserve Particular Observation. |...| The Second Edition. | [double rule] | London: | Printed for the Honourable Lady Hill, in St.James's Place; | And, by her Appointment, sold by J.Dodsley, in Pall-Mall. | [rule] | M.DCC.LXXX.

4°: viii, 265, [3]p; A-Ll^4, Mm^2. 23.5 x 19.4 cm(9 1/4 x 7 3/4 in). Cropped. USGS Kunz Coll.

Cont: tp; ltr to Martin ffolkes; pref; text; tab cont.

Of the eight parts, the last concerns minerals, specifically Part VIII, Book I. "Fossil Subjects," Ch 1, on the petrifying quality of Lough Neagh, Ireland waters, p 189-99, and in Book III., "of Treatises on Gems, " p 242- 65, Hill comments on a work on gemstones published by Robert Dingley, Esq. in the 483rd number of the *Transactions of the Royal Society*, London, 1747, and also comments on the turquoise, p 252-64 in number 482 written by a Dr. Cromwell Mortimer. The work on Lough Neagh, by Richard Barton, in its full book form is described above under his name. All of Hill's comments are sharply critical and aroused much controversy. See discussion under the entry for Hill in DNB.

HILL, JOHN, see THEOPHRASTUS, 1746, 1754, 1770, 1774

HILL, J B, see FLETT, J S

2946. HILL, MARY

Hunting | Diamonds | in California | Revised Edition | by | Mary Hill | Naturegraph Publishers | Healdsburg, California | 95448 [1972]

Cementb: 80 p, 19 ill. Thick glossy wrap, front cover blue & white lett & col vignette of cut diamond & panning outfit; California map back cover. 21.2 x 13.9 cm(8 3/8 x 5 1/2 in). Cut, $2.00. ISBN 911010-96-3. JSL.

Cont: tp; publ data; tab cont; ackn; prefs; text.

The original edition, *Diamonds in California*, entered under PAGES OF HISTORY, which see, is modified only slightly with changes in illustrations, some now omitted and/or exchanged. Rev *G & G*, 14, 12, 1974-75, 374-75.

2947. HILL, P G

Whitby Jet | by | P.G.Hill | Printed by | Horne & Son, Ltd. | 1972

Centerstapled: 31 p. White, print wrap. 15 x 10.7 cm(5 7/8 x 4 1/4 in).

What jet is, nomenclature, properties, geological history, sources, jet in the vicinity of Whitby, England, working jet with

practical lapidary instructions, the jet industry in Victorian times. Written for the visitor and buyer of jet trinkets & jewelry, and with suggestions for collecting.

2948. HILL, ROBERT The handbook of flat lapping. *Gems & Min*, no 481, 1977, p 50 to no 491, 1978, p 72 ff, 10 articles altogether, on preparing flat surfaces upon gem materials.

HILL, R S, see THOENEN, J R, et al

2949. HILLER, JOHANNES ERICH Die Minerale der Antike. Ein Beitrag zur Geschichte der Mineralogie im klassischen Altertum. *Archiv f Geschichte d Mathematik, d Naturwissenschaften u der Technik*, Bd 13, 1931, 358-402. Not seen; from MEIER, C, 530.

2950. -----1933 Anselmus Boetius de Boodt als Wissenschaftler und Naturphilosoph. *Archeion*, 15, 1933, 348-68. Not seen.

2951. -----1941 Die Mineralogie Anselmus Boetius de Boodts. *Quellen u Studien zur Geschichte d Naturwissenschaften u der Medizin*, Bd 8, Fasc 1/2, Berlin, 1941, p 1-125. "The exhaustive study on... Gemmarum et Lapidum Historia." Not seen.

HILLER, MATTHÄUS(1646-1725)

Ger orientalist, linguist; b Stuttgart; instructor in arts U Tübingen, later prof oriental languages & theol; wrote important theol, philosoph works. *Biogr Univ*, 20, 387-8.

2952. -----1698 Tractatus de XII gemmis in pectorali Pontificis Hebraeorum, Tübingen, 1698. 4°: 82 p. Not seen: Leupold, 71; Banks Cat.

2953. HILLER, V W, editor

The Story | Of Cecil Rhodes | Set out in a Series of | Historical Pictures and Objects | to commemorate | the Centenary of his Birth | 1853-1953 | Descriptive Souvenir | And Catalogue | Central African Rhodes Centenary Exhibition | Bulawayo | 1953

8°: 192 p; front col portr drawing of Rhodes on glossy f tip-in + 6 sepia-tint glossy pls tip-in + 11 woodcut ch orns by Lennox Paterson. Col paper over bds, black & red lett & dec on cover; black lett spine. Pale tan endp. 27.7 x 21.7 cm(10 7/8 x 8 1/2 in). Cut. JSL.

Cont: pl; tp; contributors list & publ data; tab cont; ill list; introd (10 chs + epilog); ackn; chronology; descriptive catalog(15 sections); biblio (p 115-92, ca 200 entries).

Rhodes' influence on the development of South Africa is fully explored in this work of permanent reference value. There is an excellent bibliography by J P R Wallis, who also prepared the catalog, which briefly describes many kinds of historical pictures and memorabilia tracing Rhodes' career. The main bibliography by E E Burke is comprehensive and detailed.

2954. HILLIKER, GRANT G The cameo, shell and coral industry in Naples province. *Amer Consulate General, Naples, Italy Rpt No 22*, Sept 8, 1948. Typescript: 9 p, hectographed, with 3 phot.. JSL. Post World War II recovery, with excellent detail on the materials, sources, workers, skills, tortoise shell articles, production, statistics, outlook based on interviews and Custom Office statistics, as well as other sources.

2955. HILLS, L Darwin glass. A new variety of the tektites. *Tasmania Dept Mines, Geol Survey, Records No 3*, 1915, p 1-14, Pl 1-4(includes a topo map). Not seen.

2956. HILTON, JAMES Remarks on jade. *Archaeol J*, London, 45, 1888, 187-205. not seen: G M Born 172-3; Yang 1505. With, "Further remarks on jade," ibid, 48, 1891, 162-73.

2957. HINDMARSH, ROBERT(1759-1835)

Precious Stones: | Being An | Account Of The Stones | Mentioned | In the Sacred Scriptures. | By The Late | Robert Hindmarsh. | London: | James S. Hodson, 22, Portugal Street, | Lincoln's Inn. | 1851.

8°: [2], vi, 85, [1 blank]p + [2]p other works of author. Front pl showing diagrammatically the Ten Commandments and the High Priest's breastplate, tip-in; similar pl of breastpl, tip-in at p 54, with cut gems hand-col. Green & brown cloth imitating marbled paper; gold rule frame & gold lett on cover; spine blank. Pale lemon-yellow dull finish endp. 16.8 x 10.5 cm (6 5/8 x 4 1/8 in). Cut. Paper browned, brittle. LC 31-8967. JSL.

Cont: pl; tp; publ data; note of delay in publ; pref; tab cont; text; blank p; other bks.

Aside from earlier works on the urim and thummim, eg, Spencer 1669, and the vestments of the High Priest, eg, Braun 1680, this work, originally dated 1815, precedes the similar work of Jarman of 1850 by many years but as the preliminary note states, it waited publication some time after the author's death and did not appear until 1851. Indicative of the care which went into its compilation is the fact that it is still considered a basic reference. The text provides a general account of Biblical gemstones, followed by sections on stones used for monumental or memorial purposes, the stone tablets bearing the Ten Commandments, the High Priest's breastplate gems, the urim and thummim, and lastly the "new Christian breastplate" in which it is shown how a breastplate with other than the traditional stones can be constructed and still accord with the spirit of Christian religion and the teachings of the Bible. A rare work; probably many copies lost due to poor, readily disintegrating paper and binding.

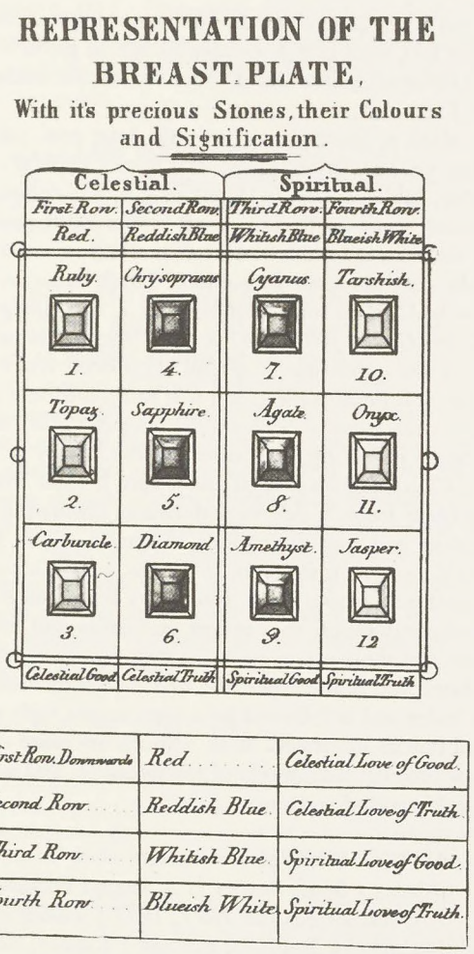
2958. HINKS, PETER

Hamlyn all-colour paperbacks | Peter Hinks | Jewellery | Illustrated by Martin Battersby | [orn] | Paul Hamlyn · London | Sun Books. Melbourne [1969]

Cementb: 159, [1]p; several 100's watercol illust. Glossy col wrap, jewel each cover; resume, vita. 17.9 x 10.9 cm(7 x 4 1/4 in). Cut. 6/-. JSL.

Cont: tp; fwd & publ data; tab cont; text; assay mks tab; gloss; biblio (p 156, 13 entries); index; other series bks.

Popular, lavishly illustrated and "reflecting social and historical changes," with emphasis primarily on Western jewelry. From p 118 onward appear sections on genesis of gemstones, identification, lapidary treatment, weights, values, lore, brief descriptions of a few major gemstones, synthesis, famous diamonds, etc, all compressed and not of much value. For the most part the illustrations are true to life although inclined to be garishly colored. The author is a jewelry expert in the London firm of Sotheby & Co.



First Rom. Downwards	Red	Celestial Love of Good.
Second Rom.	Reddish Blue	Celestial Love of Truth.
Third Rom.	Whitish Blue	Spiritual Love of Good.
Fourth Rom.	Blueish White	Spiritual Love of Truth.

2957. The High Priest's breastplate, according to Hindmarsh treatise on Biblical gemstones; the cut gems are hand-colored

2959. HINNERUP, P R

Haandbog | for | Juvelere, Guld= og Sølvarbeidere; | indeholdende | Beskrivelser og Tegninger over det theoretiske | og praktiske af disse Kunster, | tilligmed | endeel Anviisinger og Forklaringer over de nyere | Arbeidsmaader | hos | adskillige Metalarbeidere, | samt | de letteste og paalideligste Regler og Tabeller til at | vurdere Guld, Sølv, Aedelstene, Perler m.v. | af | P.R. Hinnerup, | Myntguardein. | [taper rule] | Kjøbenhavn. | Trykt, paa Forfatterens Forlag, | hos Bianco Luno. | 1839.

8°: [1], [1 blank], [1], [1 blank], 734, [6]p; first 2 f supplied & tip-in; 6 engrav fold pls bound-in at end. Pale gray paper over bds; title & rules on paper spine label. 20.5 x 12.2 cm(8 x 4 3/4 in). Uncut. 3 Rbd. 3 Mk. JSL.

Cont: tp; dedic(to Hans Christian Oersted); introd; text; index of gemstones; index of tech terms; errata; pls.

An extremely comprehensive and detailed early Danish jeweler's manual dealing with all aspects of the business from raw materials to the processes used in the manufacture of jewelry. There is an extensive chapter on gemstones, p 288-395. Other subjects include regulations on the use and hallmarking of precious metals. The chapter on gemstones treats qualities, physical and optical properties, colors of gemstones, lapidary work, styles of cutting, descriptions of gemstones, birthstones, lore, gemstones arranged alphabetically to facilitate formation of mottoes & names, artificial gemstones and pearls, prices of gemstones, pearls, and amber. In the last part is a bibliography, p 710-11, in which are included standard works on gemstones. The plates contain many small figures, the first depicting metallurgical/chemical apparatus, the second crystal forms, then cutting styles, relative size & weights of faceted diamonds and pearls, mountings for gemstones, and several lapidary benches. The third plate shows apparatus for modeling, casting, and engraving. Plate four depicts metalworking machines and tools, with a few beating hammers shown on plate five along with designs for jewelry. The last plate shows elaborate hollow ware and several pieces of table ware. Rare. Hans Christian Oersted, or Ørsted(1777-1851), celebrated Danish physicist.

HINTON, V V, see WEBSTER, R

HINTZE, CARL(1851-1916)

Ger mineralogist, crystallographer; stud Breslau, Bonn, Berlin; asst to P Groth at U Strassburg 1872; eye disease & econ difficulties led to abandoning science career & establishing himself as a mineral dealer in Strassburg & Kiel; from 1880, scient dir of Dr F Krantz Rheinische Min-Kontors, Bonn; to Breslau 1886 to the university Tech HS as dir & prof; most writings crystallogr & chemical investig; his "Handbuch" took 30 yrs of intensive & critical effort, but remained unfin after 4516 pages, but was later continued by G Linck and others. Pogg 4, 644-5; NDB 9, 193.

2960. -----1898-1939

Handbuch der Mineralogie. 6 vol. I:, pt 1, nos 1-8, elements & sulfides, p 1-1208, 1898-1904; pt 2, nos 9-17, oxides & haloids, p 1209-2674, 1904-1915; pt 3, first half, nos 18, 23-27, nitrates-manganates, p 2677-3656, 1916-1929; pt 3, second half, nos 27-33, sulfates-uranates, p 3657-4565, 1929-1930; pt 4, first half, nos 19-22, 34, borates-phosphates, p 1-720, 1921-1931; pt 4, second half, nos 34-38, phosphates-organic, p 721-1454, 1931-1933. Vol II, nos 1-12, silicates-titanates, p 1-1842, 1889-1897. Also an Ergänzungsband, 760 p, 1936-1937, and General Index, 71 p, 1939. Berlin & Leipzig.

Massive, highly detailed, thoroughly referenced compilations of data and deposit information on minerals, culled from numerous scientific papers and publications; gem species included and cited below. LC 8-34824.

Diamond: Vol I, pt 1, p 1-43, 8 fig, crystallography, forms, habits, properties, historical, remarks on cutting, occurrences, in meteorites, synthesis.

Quartz: Vol I, pt 2, p 1266-1445, figs 412-441. Very large historical section with much on varieties; occurrences extend over p 1353-1441; synthesis; chalcedony: 1464-1500; opal: 1501-1538; zircon: 1628-1668; corundum: 1739-1782. Olivine(peridot): Vol 2, p 3-20; phenakite, 38-43; garnet group, 46-95; danburite, topaz, andalusite, sillimanite, kyanite, 97-162; euclase, 180-7; epidote group(includ zoisite), 199-257; vesuvianite, 277-307; tourmaline group, 311-367; axinite, 487-509; serpentine group, 761-794; cordierite, 918-932; pyroxene-amphibole, 958-1271 and includes rhodonite, jadeite, nephrite; spodumene, 1117-1125; beryl, 1171-1296; feldspar group, 1332-1554; scapolite group, 1554-1589; titanite, 1609-1637.

HIPPOCRATES, PSEUDO, see PSEUDO HIPPOCRATES

2961. HISPANIC SOCIETY OF AMERICA, THE

Jet | In | The Collection Of | The Hispanic Society | Of America | [society badge] | The Hispanic Society | Of America | New York | 1926 [title enclosed in ruled frame] [Hispanic Notes & Monographs... Catalogue Series]

Centerstapled: v, 20 p, actually 20 double-leaves, but pl leaves not includ in pag; front pl + Pls I-VI(9 photos). Pale tan, textured heavy paper wrap, sepia title on cover; rounded corners; ae stained red. Very pale tan semi-glossy paper. 16.5 x 11 cm(6 1/2 x 4 1/4 in). Cut. JSL.

Cont: series tp; front pl; tp; publ data; tab cont; pref; descriptions of objects; biblio(p 20, 4 entries).

Attractive, elegantly-produced booklet on the jet of Spain and its use in a variety of small carved objects of religious and amuletic significance; objects include images of St James and several amulets.

2962. HISSERICH, LUDWIG THEODOR

Die | Idar=Obersteiner | Industrie | bearbeitet von | Dr.L.Th.Hisserich. | [orn rule] | Oberstein. | Druck und Verlag der R.Grub'schen Buchhandlung. [1894]

8°: [4], 178, [3]p; front ill tip-in; another fullp ill tip-in facing p 104. Red cloth, elaborate gold & black orn frame on cover enclosing gold title with orn; same frame, blind, back cover. Glossy white endp. 22.2 x 14.5 cm (8 3/4 x 5 3/4 in). Ae stained red. Cut. USGS Kunz Coll, GS 33-334.

Cont: pl; tp; fwd; introd & comment; 2 parts text; concl.

Traces lapidary industry in Idar-Oberstein region from antiquity to the present, with special remarks on how and why it developed where it did, the methods of handwork and other technical skills, the growth of cottage industries, regional development, laws, impact of imports of raw materials from Brazil, and other topics. The frontispiece plate shows workers lying on their chests in an agate mill, while the other plate shows sketches of gem engraving, stone boring, and other forms of lapidary work. An excellent and respected treatment which is much referenced still.

HISTOIRE DES JOYAUX ET DES PRINCIPALES RICHESSES, etc, see CHAPPUZEAU, S

HISTORY OF JEWELS, see CHAPPUZEAU, S

2963. HITT, HENRY C Old Chinese snuff bottles: notes, with a catalogue of a modest collection. Bremerton, Washington: Henry C Hitt, 1943. Not seen; it is understood that the 2nd edit below is identical.

2964. -----1945, 2nd edit

Old | Chinese | Snuff Bottles | [orn] | Notes, with | a catalogue of a | modest collection | [orn] | Henry C.Hitt | Bremerton, Wash. | Second Edition 1945

Title in single-line frame; entire work, title & contents, drawn & lett by hand by author, then photocopied.

Accordion-folded paper, one side printed only, with each leaf actually double. First blank f pasted to free endp; last f bears colophon & is cemented to back free endp; inner folds cemented to backing. [2]p + V, [1 blank], 110, [1]p; front + 3 other actual photo print tip-ins, each with a number of snuff bottles. Many line drawings in text of bottles, designs, legends, etc. 20.9 x 13.5 cm(8 1/4 x 5 1/4 in). Cut on te & be only; fe are edges of folds. All edges stained green. Pale green unfin cloth of coarse weave over bds, with title & circular design in green over gray on cover. Greenish-yellow endp. Very few copies made; sold privately. JSL.

Cont: blank p; front photo; tp; publ data; pref; tab cont; text; notes; pronunciation guide; date marks; cyclical dates; bottle types; biblio(p 106-7, 18 entries); index; colophon.

Pioneering work on Chinese snuff bottles; Hitt remarks "there is almost a total lack of literature... this is, as far as is known, the only book on the subject." Hugh Moss, in "A beginners guide to Chinese snuff bottles," part 2, *The Antique Dealer and Collectors Guide*, 1970, p 97, calls it "another limited edition which is almost impossible to obtain. This book was handwritten by Hitt and photocopied, and it is more a tribute to his enthusiasm than a useful book on the subject." Hitt begins with how he began collecting, then discusses the history of snuff bottles in China, the snuff itself and where it came from, bottle materials (with front & side view drawings illustrating bottles in his collection, and with dimensions, materials, colors, workmanship, period, size, etc), stoppers & spoons, snuff saucers, filling funnels, necklaces whose beads sometimes furnished stopper finials, and many motifs that appear on bottles and their meanings. There are short essays on word pronunciation, date marks, cyclical dates, and bottle types. the first part ends with a bibliography & index and is followed by a supplement with notes and additional bottles illustrated. Both editions are quite charming and remarkable for their mode of manufacture, and needless to say are highly prized and rare.

2965.-----1977, 2nd edit photocopied

Old | Chinese | Snuff Bottles |...| Second Edition | 1945 | Snuff Bottle Collector Reprint No.7, 1977 [Sellindge, Kent: Snuff Bottle Collector Reprints, Michael J Kaynes, Editor]

8°: [2 blank], [2], V, [1], 110 p.; same ill but photos printed in text. Glossy paper over bds; title in red on cover with pale green ivy leaves over white ground and extending over spine & back cover. 21 x 14 cm(8 1/4 x 5 1/2 in). Cut. Gray ink. JSL.

Cont: blank f; introd & ackn; colophon; tp; publ data; pref... index.

The new introduction describes how this edition was conceived and manufactured; colophon now moved up to face title; front photo pl now placed after tab cont; supplement of 2nd edit not included and unexplained.

2966. -----1978, another photocopy

Old Chinese | Snuff | Bottles | Notes, with a | Catalogue of a | Modest Collection | by Henry C.Hitt | [orn] | Charles E.Tuttle Company | Rutland, Vermont & Tokyo, Japan [1978]

8°: xii, 121, [7 blank]p; front col pl + 3 others, each on glossy paper f tip-ins; same text ill. Black, unfin silk; gold spine title; pale green endp; black dj with col photos of bottles on cover, orange & green lett; spine title; other publ bks on back cover; flap resume. 20.8 x 14.3 cm(8 1/8 x 5 5/8 in). Cut. $10.00. LC 76-44088; ISBN 0-8048-1220-9. JSL.

Cont: 1/2tp(new); pl; title(new); publ data(new); tab cont; pref to new edit; pref... suppl; 7 blank p. Colophon of original omitted.

Handsome, well-produced photocopy that is much superior in all respects to previous photocopy; color plate and 3 b&w plates of original especially well reproduced.

2967. HOBBS, JILL Detecting diamond simulants. *International Gemological Symposium Proc* 1982, D M Eash, Edit, Santa Monica, CA: Gemological Institute of America, 1982, p 123-39, 3 tab, 18 col photos.

HOBBS, WILLIAM HERBERT(1864-1953)

USA geol, tchr; b Worcester, Mass; BS Worcester Polytech Inst 1883; MA, PhD John Hopkins U 1888; instr U Wisconsin 1900, then to prof; prof geol U Michigan 1906-34; autobiogr: *An Explorer-Scientist's Pilgrimage*, 1952; mem *Proc Vol Geol Soc Amer Ann Rpt* for 1953, 1954, 131-40, portr.

2968. -----1899 The diamond field of the Great Lakes. *J Geol*, 7, 4, 1899, 375-88, fold tab, 2 sketch maps; also separate. Culmination of Hobbs' studies of alluvial diamonds found along the southern margin of Great Lakes and for which he proposed in 1894 the intriguing suggestion that they were carried thence from some source in Canada during the spread of glaciers in the Ice Age. Gives history of diamond finds in America, physical characteristics of Great Lakes crystals, data tabulated, distribution, probable source. This article reprinted in *Popular Sci Monthly*, 56, 1899, 73-83; *Ann Rpt Smithson Inst for 1901*, 359-66. His earliest article on the subject, "On a recent diamond find in Wisconsin and on the probable source of this and other Wisconsin diamonds," appeared in *The Amer Geol*, 14, 1894, 31-7, 1 fig.LC S 15-1107.

HOBSON, R L, see ASHTON, L

HOCHSTETTER, FERDINAND VON(1829-1884)

Ger geol; b Esslingen; prof geol & mineralogy U Vienna; curator nat hist that city; naturalist on Novara Exped around world & author of a famous account of same; noted for geol studies in New Zealand (Hochstetter Peak).

2969. -----1864 Über das Vorkommen und die verschiedenen Abarten von neuseelandischen Nephrit (Punamu der Maoris). *Sitzungsber d k Akad d Wiss Wien*, 49, 1864, 466-80; also issued separately. Important first authoritative account of the geology and mineralogy of thc New Zealand nephrite, with clear distinctions made between the nephrite and similar serpentine. Treats synonomy, esteem & uses, lapidary treatment, sources of alluvial material, possible sources (3 sites) of in situ material, types with special Maori names for each, descriptions, chemical analyses. Lengthy commentary on this paper in H Fischer, *Nephrit u Jadeit*, 1880, 240-5, which see. Also referenced in Hochstetter's *Geology of New Zealand*, transl from the German & edited by C A Fleming, 1959, which work additionally includes Hochstetter's comments on the occurrence of nephrite and Maori terminology for its varieties, p 288, Appendix.

2970. HOCKING, ANTHONY

Oppenheimer | and Son | Anthony Hocking | McGraw-Hill Book Company | New York St.Louis San Francisco | Düsseldorf London Mexico Panama | Singapore Sydney Toronto [1973][First printed in S Afr?]

Cementb: [10], 526 p; 49 photos on 11 f not includ in pag; 7 sketch maps, 1 diagr. med, plasticized cloth, white lett spine. Pale yellow-tan endp. 22.8 x 15.1 cm(9 x 6 in). LC 73-20063; ISBN 0-07-091255. JSL.

Cont: 1/2tp; tp; publ data; dedic; tab cont; quote; sketch map; 12 chs; maps & diagr; biblio(p 499-504, ca 100 entries); ackn; index.

Many details on the life and achievements of Ernest Oppenheimer(1880-1957) and his son, Harry Frederick Oppenheimer(1908-), commencing with early notes on the death of Rhodes, the structure of the DeBeers diamond syndicate, its officers, acquisitions, methods of doing business, etc, and the entry of Ernest Oppenheimer into the organisation. A thorough account of his career to becoming chairman is given, as well as of his private and public life. In similar fashion is treated the career of his son, but the account here becomes highly detailed and perhaps even adulatory. The time period is 1880 to 1973. Much valuable information is incidentally given on diamond discoveries, mining, processing of ore, sale, etc. Extremely useful reference.

HODGE, FREDERICK WEBB(1864-)

Amer archeol; b Plymouth, Engl; to USA at age 7; career in Bur Ethnol, Smithson Inst, Wash DC 1889-1901, 1905-18, then in charge 1910-18; with Mus Amer Indian, NYC, 1918-31; dir Southwest Mus Los Angeles from 1932.

2971. -----1921.

Turquois Work Of Hawikuh | New Mexico | [logo] | Leaflets Of The | Museum Of The American Indian | Heye Foundation · New York | Number 2 [3 orns] March 22, 1921

Centersewn with white silk cord: 30 p; col litho pls tip-in to inside front cover; another tip-in on otherwise blank f integral with text but not includ in pag(between p 14-15); 3 fig; orn init. Pale grayish-tan print wrap, cover title, untrimmed edges. Mus logo embossed into cover and title leaf. 32.3 x 23.6 cm(12 3/4 x 9 3/8 ln). Uncut. JSL.

Exceptionally handsome, lavishly-produced pamphlet from the De Vinne Press, New York. Describes turquoise ornaments and jewelry recovered during the Hendricks-Hodge expedition in 1917-20 which archeologically explored the graves of the Hawikuh Indians of New Mexico. Important objects are depicted on the two fine color plates. Preliminary remarks on history of turquoise in SW United States, possible sources, methods working, significance of objects, descriptions. Interestingly, jet and bezoars of deer were also used in the ornaments. Very scarce.

2972. HODGES, DORIS M

Healing | Stones | [logo] | By | Doris M.Hodges [Hiawatha, Iowa: Pyramid Publishers, 1961]

Centerstapled: 63 p. Pale blue wrap, cover title. 22.8 x 15.2 cm (9 x 6 in). Cut. JSL.

Cont: tp; publ data; tab cont; dedic; 12 chs; publ notes; biblio; blank p.

Curious lore emphasizing the curative powers of amber, emerald, amethyst, ruby, turquoise, moonstone, opal, jade, pearl, diamond, jet, topaz. Much interesting material but only a smattering of scientific information and a few errors.

2973. -----1962, 2nd edit

Healing | Stones | By | Doris M.Hodges | [rule] | Suggested Reading | [6 lines, 4 titles, with prices] | Pyramid Publishers Of Iowa | Hiawatha, Iowa [1962]

8°: 72 p. Green cloth-type paper over bds, white title on spine, white dj with Great Sphinx photo on cover with title. 19.9s 13.5 cm(7 7/8 x 5 3/8 in) Cut. $2.50. JSL.

Cont: tp; publ data; tab cont; dedic; 13 chs.

Ch 13, 62-72, adds & discusses azurite, malachite, lazurite, chrysocolla. Publisher note: p 62-63 prev edit deleted. Reprinted to 9th print of 1976.

2974. -----1972, England edit

Healing | Gems | By | Doris M.Hodges | [logo] | Melksham | Colin Venton [1972]

Cementb: 76 p; bright yellow paper over bds, orange-yellow endp. Yellow dj with Egyptian mummy head case & title in black on cover; other publ bks back cover; resume, vita. 18.4 x 12 cm(7 1/4 x 4 3/4 in). Cut. 95p. ISBN 0 85475 O48 7. Contents same as in 1962 edit. JSL.

2975. HOECHST PHARMACEUTICAL COMPANY

The Bridge 9: A Publication of Hoechst Pharmaceutical Co., Cincinnati, Ohio. 1968. Centerstapled: 21, [3]p, wraps includ; 16 col photos, 4 col ill, 1 fig. Glossy wrap, col photos both covers. 26.1 x 21.1 cm(10 1/4 x 8 3/8 in). Cut. In printed envelope. Free. JSL. Handsome pamphlet, minimum adverts, containing several excellent articles on gems and cameos(Hans Jucker), famous diamonds(Philipp Schmidt, SJ), and talismans and amulets(Hanns O Münsterer), plus several others unsigned.

2976. HOFFMAN, CHARLES & HOFFMAN, MARGARET

Rockhound | Guide | A complete how-to-do-it guide on equipment, |... [7 lines]...| by | Charles and Margaret Hoffman | Price | $2.00

P[ii]: "Published by Hoffman's Gift Shop 1011 Chetco Ave. Brookings, Ore. 97415" and copyright by C S Hoffman 1970.

Centerstapled: [iv], 65, [3]p; 15 fig(photos, line drawings). Red-orange printed wrap, cover title. 21.6 x 13.9 cm(8 1/2 x 5 1/2 in). Cut. JSL.

Beginner's instruction booklet on tumbling gemstones: equipment used, principles of operation, instructions in use, abrasives, additives for cushioning, materials, identifying gemstones, and collecting tips.

2977. HOFFMAN, DOUGLAS L

Faceting | Instructions | and | Techniques | By | Douglas L.Hoffman | Price $2.50 | Published by | Aurora Lapidary Books [no place stated, but known to be Spokane, WA, 1966]

Centerstapled: [2], iii, 35 p; 19 fig. Col wrap, col gems over pale lavender background, black title & black-framed col photo; back cover plain white. Cover caption on inside front cover. 21.3 x 13.6 cm(8 3/8 x 5 3/8 in). Cut. $2.50. JSL.

Cont: caption inside front cover; tp; publ data; introd; tab cont; introd; 2 figs; text; formulas; tabs; index.

Explains operation of modern faceting machine with instructions in simple language to create a faceted gem from rough step-by-step. Short discussions of properties; conversion tables for angles; gems reguiring special care; table of weights & measures; main facet angles; table of gemstones & lap-agent combinations.

2978. -----1967, 2nd edit

Faceting |...| By | Douglas L.Hoffman | Illustrations | by | Leonard Merkel |...

Adds some small paragraphs; both covers white, front cover black frame removed.

2979. -----1968, another edit

Comprehensive | Faceting | Instructions | By | Douglas L.Hoffman | Illustrations | by | Leonard Merkel | and | Douglas L.Hoffman | Price $3.50 | Published by | Aurora Lapidary Books | 3507 W.LaCrosse | Spokane, Washington [1968]

Plastic tubular hinge: [2], ii, 94, [2]p; 45 fig; 2 diagrs; many cuts in line drawings on last f; tabs. Glossy white wrap, yellow & black design & lett on covers. 21.5 x 13.9 cm(8 1/2 x 5 1/2 in). Cut. JSL.

Cont: tp; publ data; lntrod; tab cont; 10 chs; tabs; log sheets; biblio (p 86-7. 19 bks & mag); suppliers list; optical gem instruments; facet cuts.

2980. -----1967.

Comprehensive Gem Diagrams | By | Douglas L.Hoffman | Price $3.95 | Published by | Aurora Lapidary Books | West 2507 LaCrosse | Spokane, Washington 99205. [1967; "2507" should be "3507"; cover marked "Vol-l"]

Red, plastic tubular hinge, oblong: [40]p; 2 transparent overlays, one printed in red, the other in black; many cut drawings in part col; other text drawings. White covers, front with col title, drawing, and decorations in blue & yellowish-gray; plain back cover. Contents thick, stiff paper. 21.6 x 28 cm(8 1/2 x 11 in). Cut. JSL.

Cont: tp; publ data; introd; two overlays; diagrams; cuts; misc info.

Brief introductory remarks: detailed diagrams, part col, of 16 cuts; also two pages,of other cuts shown in top views; important gemstone properties, conversion table, etc.

2981. -----1967.

Star Gems | By | Douglas L.Hoffman | Price $2.50 | Published by | Aurora Lapidary Books [no place given:Spokane, WA, 1967]

Centerstapled: [2 blank], [2], 1, 46 p; 31 fig. White wrap, col dec of crystals, gems & col lett. 21.7 x 14.2 cm(8 1/2 x 5 1/2 in). Cut. JSL.

Cont: blank f; tp; publ data; tab cont; 5 chs; index; suppliers list.

Explains asterism and chatoyancy, how rough is oriented to place effect on top of cabochon gem, equipment, methods for shaping and finishing, tables of weights & measures, saw coolants, operating speeds for machines, list of gemstones with hardnesses, lap/polish combinations. Excellent work.

2982. HOFFMANN, JOSEF Amethyst- und Rauchquarz Färbungen. *Zs Anorg u Allgemeine Chemie*, 106, 1931, 225-46, 1 fig. Not seen.

2983. HOFFMANN, SIEGFRIED Untersuchungen über den Opalgehalt der Achate. *N Jb Min*, B-Bd 77, Abt A, 1942, 238-76, Taf XIII-XIV(each with 4 photos). Offprinted. JSL. Selected 12 agate specimens to determine content of opal between the quartz fibers; SG and water determined beforehand. Porosity tested by thin-section dyeing(red, iron nitrate, followed by strong heating). It was found that acceptance of dye generally depended on profusion & size of pores and not on opal content, although layers least pigmented also tended to have highest opal content. Water appears mainly as inclusions in quartz fibers. Porosity increased by etching in water at 480°C and 473 atm.

2984. HOGARTH, D D & GRIFFIN, W L New data on lazurite. *Lithos*, 9, 1976, 39-54, 9 fig, 8 tab. JSL. Examines lazurite in lapis-lazuli in specimens from Baffin Island, nr Mogok, Ital Mt in Colo, & Cascade Canyon, Calif, and some other minor sources which may not yield gem material. Determined the composition, crystal structure notes, optical properties, color, other data to better define this species. Baffin Island occurrence described by D D Hogarth, *Canad J Earth Sci*, 8, 1971, 1210-7.

2985. HOLCOMB, WILL HARTLEY

Precious Gems | And Commercial Minerals | [orn] | San Diego County | California | The Gem-Adorned County of America | By | Will H.Holcomb | [rule] | Press Of Frye, Garrett & Smith | San Diego [nd, post 1903]

Centerstapled: 28, [1], [3 advert] p; 16 text photos. Heavy, tan paper wrap, black lett on front cover & rect depiction of miner holding a pick and inside front cover with list of officials; back cover plain. 19.2 x 13 cm(7 1/2 x 5 1/8 in). Cut. LC 6-447737. JSL.

Cont: inside cover list; tp; photo; text; photo; adverts.

Brochure issued to invite attention to mineral resources in the county, with special attention paid to the pegmatite gem mines which were opened after 1900 and began to produce quantities of colored tourmaline, beryls, etc. Some preliminary information on gemstones is given, also lore, properties, discussions of kunzite, tourmaline, hyacinth(erroneously identifying garnet as zircon), beryl, topaz, and other stones, several of the latter now not known to occur in the county. There is a brief laudation of local lapidaries and their facilities. Other mineral resources are briefly treated. There are exaggerations and misstatements and some errors of fact but on the whole this is a fair statement of actual gemstone resources. The photographs are of mining scenes and gemstones for the most part. Very scarce.

HOLDEN, EDWARD FULLER(1901-1925)

USA mineralogist; b Woonsocket, RI; BS Penn State Coll 1918; MS Mich U 1923 & PhD 1925; promising career cut short by drowning in Maine. L J Spencer, *Min Mag*, 21, 1927, 117, 236-7; *Amer J Sci* ser 5, 10, 1925, 380-1.

2986. -----1925 The cause of color in smoky quartz and amethyst. *Amer Min* 10, 9, 1925, 203-52, 5 fig, 13 tab, 58 ref. JSL. Investigated ca 30 specimens of smoky quartz & 24 of amethyst from many localities.Considered: source, genesis, effects of heating, radiation, transmission of light, presence of impurities. Concludes that amethyst owes color to a ferric compound, smoky quartz probably pigmented by free atomic silicon liberated through the action of radioactive substances. Important chronological bibliography. Classic and important paper, even if conclusions erroneous in part.

HOLDEN, E F, see KRAUS, E H, 1925

HOLDEN, ROY JAY (1870-1945)

USA geol, tchr; BS U Wisconsin 1903; PhD in 1915; 1905 to Virginia Polytech Inst where spent remainder career. *NC Amer Biogr*, 34, 495-6. 2987.

2987. -----1944

Bulletin | of the | Virginia Polytechnic | Institute | Engineering Experiment Station Series No.56 | [logo] | The "Punch" Jones and Other | Appalachian Diamonds | By | Roy J.Holden | Professor of Geology | [rule] | Vol.XXXVII, No.4 February, 1944 | [rule] | Published once a month by the Virginia Polytechnic Institute |...[2 lines post information] [title from wrap]

Centerstapled: 32 p; 5 fig. Pale yellow-tan print wrap. 22.8 x 15.3 cm (9 x 6 in).Cut. JSL. LC A44-1006.

Morphology and properties of the famous Punch Jones diamond crystal, a hexoctahedron of 34.46 carats, found in Peterstown, West Virginia. Describes surface features, compares with diamonds found elsewhere in United States, discusses topography & geology of region where found, diamond fields of the United States, sources of Appalachian diamonds, list and description of same, history of the finds. Bibliography p 31-2, 39 entries. The only scientific study of this diamond published.

HOLDSWORTH, E W H, see CEYLON GOVERNMENT PEARL REPORTS

2988. HOLFERT, JOHN

A Field Guide To Topaz And | Associated Minerals Of Topaz Mountain, Utah | by | John Holfert | Minerologist [sic], B.S., M.S. | Copyright 1978 | John Holfert | Bountiful, Utah [Cover: "New Revised Edition"]

Centerstapled: [2], 66 p; 36 photos, 11 sketch maps(1 map inside back cover); 12 crystal drawings. Pale blue paper wrap, title & photo on cover. 21.7 x 13.6 cm(8 1/2 x 5 3/8 in). Price unstated. JSL.

Excellent, detailed guide with helpful sketch maps leading to preferred collecting sites for crystals of topaz, red beryl(rarely large enough to facet), also quartz, bixbyite, pseudobrookite. Nearby localities for quartz lapidary materials also described.

2989. HOLGERSSON, SVEN

Röntgenographische Untersuchungen | Der Mineralien Der Spinellgruppe Und | Von Synthetisch Dargestellten | Substanzen Von Spinelltypus | Von | Sven Holgersson | [rule] | Mit 8 Tafeln Und 7 Textfiguren | [rule] | Lund | C.W.K.Gleerup [same levels to right:] Leipzig | Otto Harrassowitz [1927]

"Lunds Universitets Årsskrift. N.F. Avd.2. Bd 23. Nr.9. Kungl Fysiografiska Sällskapets Handlingar. N.F. Bd.38. Nr.9."

8°: 112 p; 7 fig; 8 bound-in pls. Pale brown print wrap, cover title. X-ray investigation spinel-group minerals and synthetic materials of spinel structural type. Describes apparatus & methods, results obtained on aluminates, including Ceylon red spinel, ferrites, synthetics.

HOLLAND, THOMAS HENRY (1868-1947)

Brit geol; b Helston, Engl; stud Roy School Mines; asst Supt Geol Survey India 1890-1903; director 1903-9; prof Manchester U; rector Imperial Coll Sci & Technol; v-chancellor Edinb U; numerous hon degrees; Fellow Roy Soc London. L J Spencer, *Min Mag*, 28, 119, 1947, 201-2; DNB with much on his writings.

2990. -----1898

A Manual | Of The | Geology Of India. | [rule] | Economic Geology. | By The Late Professor V.Ball, C.B., LL.D., F.R.S. | [rule] | Second Edition Revised in Parts. | Part I.- Corundum. | By | T.H.Holland, A.R.C.S., F.G.S., | Deputy Superintendent, Geological Survey of India. | [logo] | Published by order of the Government of India. | Calcutta: | Sold At The Office Of The Geological Survey. | London: Kegan Paul, Trench Trübner & Co. | [rule] | MDCCCXCVIII [1898]

8°: [5], 79 p; front litho pl of corundum crystal, bound-in; 4 fold maps bound-in; 7 fig. Pale grayish print wrap. 26.8 x 18.4

cm(10 1/2 x 7 1/4 in). Uncut. Rupees 1 or 1s 4 d. GS 15-556.

Cont: tp; publ data; pref; tab cont; pl; 8 sections; blank p.

An excellent paper of considerably greater scope than indicated by its simple title. It comprises a brief history of corundum, derivation of the name, its mineralogy, geology of deposits(including those in the Mogok district in Burma), and descriptions of Indian deposits, including those in Afghanistan(ruby), Burma(a very good section), and Kashmir(sapphires). P 57-61 are specifically devoted to corundum gemstones, giving Hindu-Sanskrit etymology of terms and names, prices of cut rubies, and other unusual data. Also: references, 57 entries, p 62-5, a glossary of native terms, mainly of gem varieties, lapidary terms, and others associated in some way with corundum. Locality index p 69-75. A valuable and scarce work, notable for its first-hand information on deposits, nomenclature, and lore of India. The maps include a folding sheet of British India possessions, distribution of gem corundum in Burma, a geological sketch map of the Burma Ruby Mines tract, and a sketch map of part of the Salem district in which abrasive-quality corundum is mined.

HOLLAND, T H, see COLLOT, L M F, 1899

2991. HOLLICK, CHARLES ARTHUR(1857-1933) The occurrence and origin of amber in the Eastern United States. *American Naturalist*, 39, 1905, 137-45, 2 pls. Describes the Kreischerville, Staten Island, New York occurrence and summarizes previous records of amber occurrences. Hollick was an eminent American geologist, specializing in paleobotany; some time curator in N.Y.Botanical Garden.

2992. HOLMES, ARTHUR(1890-1965) A contribution to the petrology of kimberlite and its inclusions. *Trans Geol Soc S Afr*, 33, 1936, 379-428. Associates of diamond. Not seen.

HOLMES, C J, see CHRISTIE, MANSON & WOODS, 1936

2993. HOLMES, F MORRELL

Miners And Their Works | Underground: | Stories Of The Mining Of Coal, Of Various | Metals, And Of Diamonds. | By | F.M.Holmes, | Author Of "Engineers And Their Triumphs," "Chemists | And Their Wonders," Etc. | [vignette] | London: S.W.Partridge & Co., | 8 & 9, Paternoster Row [nd, ca 1885]

8°: 160, 16(advert)p; front photo pl tip-in; 8 head- or tail-pcs; 16 fig; 12 fullp ill (reverses blank but all includ in pag). Col dec cloth, mining scene on cover with title; miner & title on spine; publ logo back cover. Pictorial endp with adverts for "Home Library." 18.3 x 12.1 cm(7 1/4 x 4 3/4 in). Cut. JSL.

Cont: front(includ in pag); tp; other publ bks; pref; tab cont; 16 chs; publ bk catalog.

Popular stories on mines and mining: coal, iron, gold, silver, copper, sulfur, mercury, and diamond, the last in two chapters, p 143-60, with headpiece view of alluvial mining, opencut at Kimberley, and the town in its early days. The diamond material is almost all on South African deposits.

2994. HOLMES, MARTIN

The Crown Jewels | in the Wakefield Tower at the Tower of London | by Martin Holmes F.S.A. [London: Her Majesty's Stationery Office, 1953; from cover: "Ministry Of Works Official Guide"]

Centerstapled: 26, [2]p; wraps includ in pag; 45 ill, some on pale purple ground, mainly photos. Pale gray-tan paper wrap, title with royal coat-of-arms in color on front cover; publ data back cover; several text ills inside covers. 23.4 x 17.7 cm(9 1/4 x 7 in). Cut. 2s. JSL.

Excellent short account of the crown jewels and regalia of England: historical notes, descriptive details, opening times, admission fee.

2995. -----1955, 2nd edit, not seen

2996. -----1955, 2nd edit, 3rd impress, 1957, with amendments

The | Crown | Jewels | In The | Wakefield Tower Of The | Tower Of London | By Martin Holmes, F.S.A. | Ministry Of Works Official Guide | London: Her Majesty's Stationery Office | 1955 [title in 3-rule frame]

Centerstapled: [2], 25, [1]p; wraps not includ in pag; 33 photos includ one inside each wrap cover. Dk red-purple wrap, title in white with col photo, framed, of St Edward's crown on cover. 19.7 x 13.7 cm(7 3/4 x 5 3/8 in). Cut. 1s 6d. JSL.

2997. -----1962, 3rd edit, 3rd impress, 1965

Ministry Of Public Buildings And Works | The | Crown Jewels | In The | Wakefield Tower Of The | Tower Of London | By Martin Holmes, F.S.A. | London | Her Majesty's Stationery Office | 1962 [title in 3-rule frame]

Centerstapled: [2], 25, [1]p; 26 photos, 6 col photos, 1 doublep diagr; 1 photo inside back wrap; same wrap, etc. 1s 9d. JSL.

2998. HOLMES, MARTIN & SITWELL, H D W

The | English Regalia | Their History, Custody & Display | by H Martin Holmes, FSA | sometime Assistant Keeper in the London Museum | and | Major-General H.D.W.Sitwell, CB, CVO, MC, FSA | sometime Keeper of the Jewel House | [crown] | London · Her Majesty's Stationery Office · 1972

8°: ix, [1 blank], 83, [3 blank]p; col front pl + 23 others in col + 19 in b&w. Dull red cloth, title in white on cover with gold crown; white spine title. Smooth gold endpapers, vertical scroll bands in white with black lines. White, plasticized dj; col photo of crown on cover; b&w crown back cover. 28 x 22 cm(11 x 8 5/8 in). Teg. cut. £ 4.00. ISBN 11 670407 1. In plain, thick cardbd slipcase. JSL.

Cont: 1/2tp; front; tp; publ data; fwd; tab cont; ill list; text; personnel lists; references tp; biblio(p 82-3, 51 entries); 3 blank p.

Not only authoritative but a beautiful production, notable for the high quality of materials used and the illustrations. Text in two parts: (1) on the history of the regalia by Holmes, and (2) descriptions of the regalia by Sitwell and of interest to the gemologist because of mentions of the famous gems incorporated in the objects and the superb plates which clearly depict details. Notable feature: inclusion of a large number of former crowns with illustrations taken from earlier works on the crown jewels.

HOLMES, RALPH JEROME (1906-1977)

USA mineralogist/geol/tchr; b New York City; BS, PhD Columbia U; on faculty & prof geol & mineralogy Columbia U since 1936; specialized in study synthetic gemstones & general gemology.

2999. -----1960 Synthetic and other man-made gems. *Foote Prints*, Phila, 32, 1, 1960, 3-24, 26 fig(diagrs, photos); also photos on both covers. The journal is published by the Foote Mineral Company. Admirably comprehensive article: gemstones in general, identification methods, substitutes, imitations, assembled stones, reconstructed stones, synthetics, details on the Verneuil flame-fusion process and its modern use, production of star boules, spinel synthetics, also emerald, rutile, strontium titanate, diamond. A final section discusses problems of nomenclature & description. It would be very difficult to find a better article saying so much in so little space.

3000. HOLMES, R J & CROWNINGSHIELD, ROBERT Gemology [art in:] *The Encyclopedia of Mineralogy*, Keith Frye, editor, publ by Hutchinson Ross Publ Co, Stroudsburg, PA, 1981, 168-87, 18 fig, 9 ref. JSL.

3001. HOLMES, URBAN T Mediaeval gem stones. *Speculum*, 9, 1934, 195-204. After consulting a number of jewel inventories as well as lapidaries of the period, Holmes provides an interesting article on the identities and/or the probable identities of a number of gemstones that were "treasured and collected" in the Middle Ages. Relative esteem is assessed; Holmes contends that "of fifty-nine substances in Marbodus many of them were rare or unknown in Western Europe during the mediaeval period." Generously footnoted and with authorities indicated. See also Eugene H Byrne's article, in same journal, vol 10, 1935, p 177-87, which is in the nature of a continuation or supplement.

HOLMES, WILLIAM HENRY (1846-1933)

USA geol/ethnologist/artist; b Harrison, Ohio; joined USGS as artist 1872-89, becoming expert in field geol; various duties US Nat Mus, Wash, DC, 1882-98; curator, Field Mus Nat Hist, Chicago & prof U Chicago 1894-7; in 1907 returned to Washington, eventually becoming Chief, Bur Ethnol, Smithson Inst, with other duties; DSc George Washington U 1913; skilled delineator of geological formations, for which illustrations he was famed, eg, the splendid sweeping panoramas in Hayden's Survey publications, and esp the colored panoramas of magnificent size & beauty in Dutton's Atlas to USGS Monograph 2, *Tertiary History, Grand Canyon*.

3002. -----1883 Art in shell of the ancient Americans. *Second Ann Rpt, Bur Ethnol, Smithson Inst*, Wash D C, 1883, 179-305, Pls XXI-LXXVII(57 pls). Also in separate form with Pale gray printed wrap, title on cover, 30.5 x 21 cm(12 1/4 x 8 1/4 in), uncut. While the text emphasizes art it also describes the many types of objects that the aborigines made from shell including the pearly freshwater unios and the saltwater abalones(haliotis), both of which figure prominently in Holmes' treatise. The objects comprise utilitarian pieces as spoons, cups, etc, decorative pieces and jewelry items, symbolic pieces or religious objects, and many more, with examples shown upon the plates which are mostly cuts made after photographs but in a few instances include drawings presumably made by Holmes. Early explorer accounts are cited to show how lavishly some natives decorated themselves with objects made from shell although mentions of freshwater pearl are few. On p 186, Holmes mentions that the present work was merely "an outline" Which was to be followed by "a more exhaustive monograph" on the same subject, but this never appeared.

3003. -----1919

Smithsonian Institution | Bureau Of American Ethnology | Bulletin 60 | Handbook | Of | Aboriginal American | Antiquities | [rule] | Part I | Introductory | The Lithic Industries | By | W.H.Holmes | [vignette] | Washington | Government Printing Office | 1919

8°: XVII, 380, [2 blank]p; 223 fig(photos, drawings, maps, etc). Olive cloth, blind-ruled frames both covers, gold lett & logo + Indian axe-head on spine. 23.4 x 14.9 cm(9 1/4 x 5 7/8 in). Cut. JSL. LC 19-27642.

Cont: tp; ltr; tab cont; ill list; pref; 36 chs; biblio(p 368-72, 127 entries); index; blank f.

Outstanding, remarkable work replete with useful information on the lapidary arts of the aboriginal Indian inhabitants of America. Henry Hodges, *Artifacts*, New York: Praeger, 1964, p 232, remarks, "The title is misleading. The book gives a detailed account of stone-working techniques in pre-Columbian America. Applicable to a much wider field, this is the only general account of stone working before steel tools." The first eight chapters form an introduction that deals principally with the cultures of the various Indian races and how these influence their art in stones and the manufacture of same into many types of objects both useful and ornamental or spiritual. The remaining chapters, the real substance of the book, deal directly with Indian prospecting, mining and quarrying of stones, including gem materials, specific sources such as the Flint Ridge quarries in Ohio, novaculite quarries in Arkansas, many places for obsidian, pipestone quarries, and even quarries and mines for turquoise. The last nine chapters treat in detail the techniques of stone working including percussion methods, abrasive work, heating & spalling, drilling, and engraving. All methods are clearly illustrated and the lapidary portions even today make rewarding reading to modern workers in gems and stones.

3004. HOLSTEIN, OTTO Fachkunde des Diamantschleifers. Priv publ, Idar-Oberstein 1936. RM 25.- Center-stapled: 14, [2]p + 17 loose pls on card stock, each with drawings part col in red; pale yellow paper, brown lett. The pamphlet with 2 text fig in red & brown. Thick, red paper folder, cover title. Pl size 24.5 x 16.5 cm(8 1/2 x 6 1/2 in). Plates show steps taken in cutting diamond from rough to finished gem, with pamphlet furnishing explanations. Prepared by the then Director of the Trade Schools in Idar-Oberstein. In 1958 it was announced that if enough interest were shown, a second edition would be issued. So far as I could learn it was not.

HOLSTEIN, O, see OLDENBURGISCHEN INDUSTRIE, etc

3005. HOLSTEIN, OTTO & KOCH, W

Die | Seele Der Edelsteine | Ästhetische Und Psychologische Edelsteinkunde | Auf Astrologischer Grundlage | Von | Direktor O.Holstein | Und | Dr.W.Koch | Mit 63 Abbildungen Von Edelsteinen Auf 3 Doppeltafeln | In Sechsfarbigen Kunstdruck | 1934 | [rule] | Richard Hunmel Verlag, Leipzig

8°: X, 226, [4 advert]p; 3 fold col pls on heavy glossy paper in cloth inside back cover pocket. Stiff white paper covers, overlain with pale tan paper wrap, vermilion lett & dec on front

DIE

SEELE DER EDELSTEINE

ÄSTHETISCHE UND PSYCHOLOGISCHE EDELSTEINKUNDE

AUF ASTROLOGISCHER GRUNDLAGE

VON

DIREKTOR O. HOLSTEIN

UND

DR. W. KOCH

MIT 63 ABBILDUNGEN VON EDELSTEINEN AUF 3 DOPPELTAFELN

IN SECHSFARBIGEM KUNSTDRUCK

1 9 3 4

RICHARD HUMMEL VERLAG, LEIPZIG

3005. Astrological lore of gemstones according to a pair of respected German investigators

& verm lett spine. 23.5 x 15.75 cm(9 1/4 x 6 1/4 in). Cut. Te stained red. Rm 7.50 paper, 9.50 cloth. The color plates could be purchased separately. USGS Kunz Coll, GS 37-214; JSL.

Cont: 1/2tp; tp; publ data; tab cont; fwds; 12 chs; index; Koch bks; 3 p adverts.

A standard, respected work on the curious lore of gemstones which is unusual because of its dispassionate appraisal of the subject by the authors. They bring in evidence from many sources to show that magical and curative powers of gemstones were connected in early thought to the celestial bodies which were believed to influence all life on earth and even such lifeless things as gemstones. The text is refreshingly free of the naive credulity commonly found in similar works yet treats the subject with sympathy and takes the point of view that gemstone lore is an integral part of our culture and as such deserves a respectful hearing. Among topics discussed are the twin cities of Idar-Oberstein and their gem industries, lore of birthstones, the connections of astrology to gemstones, light & color phenomena in gems, assignment of specific gems to specific planets, zodiacal signs, gemstones as talismans, beneficial gemstones, and a final chapter that examines Goethe's views on the powers & lore of gemstones. The color plates were sold separately; they unfold to 28.5 x 22.5 cm(11 1/4 x 8 7/8 in) and are in full color. Plate I birthstones, II planetary stones, and III zodiacal stones, 63 in all. Rev: B W Anderson, *The Gemm*, 3, 36, 1934, 378-9.

3006. HOLT, SIDNEY T

The Diamond | A Short And Snappy Account | Of Its Occurrence, Characters | And Applications In Jewelry | Edited by | Sidney R.Holt | of the firm of | Frank Holt & Company | Diamond Merchants | At | "The Diamond Market-Place of Newark" | Broad, Cor. Academy St., Opp. Post Office | Newark, New Jersey | Copyrighted by Sidney T.Holt, 1909 | [rule] | We cheerfully present this pamphlet with the sole idea of bringing to light | some interesting facts concerning the diamond, which probably have never | before been presented to you in this form. | Read It - There Is Positively No Advertisement | Between The Lines

Centersewn: green silk cord: 35, [1 blank]p. Dk gray-green wrap, gold cover title; wrap overlaps text. 17.3 x 11 cm(6 7/8 x 4 3/8 in). Cut. All letterpress in brown on tan paper. LC 9-28771. USGS Kunz Coll.

Cont: tp; pref; text; blank p.

Diamonds, Where found, diamonds in meteorites, chemistry, synthesis, uses in jewelry, cutting, famous diamonds, the current market in diamonds.

3007. -----1916

The Pearl, Its Legends, Origins And Uses | Edited by | Sidney T.Holt | President of | Frank Holt & Co. | Diamond Merchants And Jewelers | Newark, N.J. | [rule] | Copyrighted by Sidney T.Holt, 1916 | [rule] | Interesting and Instructive Reading for the | Lover Of Pearls

Centerstapled: 16 p; all lett in blue. Pale gray wrap, pale blue title on cover; wrap overlaps text. 17 x 10.7 cm(6 5/8 x 4 1/4 in). Cut. USGS Kunz Coll, GS 34-497.

Cont: tp; pref; text.

Sources of pearls, pearl fisheries, pearls of Baja California, the culture pearl in Japan, shapes & colors, values, famous pearls, and other facts, all told in interesting fashion.

HOLTTUM, R E, see MACGREGOR, A M

HOLTZAPFFEL, CHARLES(1806-1847)

Brit tradesman, manufacturer, writer; b London; received a "good Engl education," & thorough training in mechanical practise which forms the subject of the volumes below, his principal work; his company supplied tools, machines, apparatus, raw materials to artificers & manufacturers. The work below, originally planned for 5 vols, commencing 1843, did not pass 3 vols; it was projected by his successors to six vols altogether, but only five were ever published. J H Howard, "The work of Charles Holtzapffel," *Lap J*, 4, 3, 1950, 172-4, 176; DNB 1, 993; Pogg I, 1133.

So far as I could determine, the complicated printing history is as follows:

Vol I 1 edit, 1000(?) copies; tp date 1843, spine date 1843, p 1-462

2 edit, 1900 copies, 1846, spine date same

3(?) edit, 1000 copies, 1852, spine date 1846

Vol II 1 edit, 1000(?) copies, 1846, spine date 1846(?), p 457-1025 [sic]

2 edit, 1000 copies, 1847, 1847, p 457-1025[sic]

3(?) edit, 1000 copies, 1847, spine date 1893, p 457-1025

Vol III 1 edit, 1000(?) copies, 1850, 1850, p 1026-1477

1 edit, 1000 copies, 1864, 1864, same p; index to all 3 vols.
2 edit, (?) copies, 1894, 1894, p 1-796, rev & enlarged by John Jacob Holtzapffel

Vol IV 1 edit, (?) copies, 1879, 1879, p 1-592
2 edit, (?) copies
3 edit, 1000 copies, 1881, 1897, p 1-592

Vol V 1 edit, (?) copies, 1884, 1884, p 1-656
2 edit, (?) copies, 1894, p 1-656

As can be seen, the series runs in the first 3 vols with continuous pagination, excepting the front matters, with the index for the first three volumes at the end of the third volume. The so-called "editions" are merely printings, sometimes with new date entered on title & spine, sometimes not. Upon the death of Charles H, his son, John Jacob, undertook continuation of the series by first revising vol 3 as noted above. The final two vols bear his name alone as author.

The contents of the volumes are as follows with by far the most useful and informative to the gemologist and lapidary being volumes 1 & 3, described separately below:

Vol I Materials - differences in, choice of, preparation, various modes of working them generally without cutting tools.

Vol II Principles of construction, action, and application, of cutting tools used by hand, also machines derived from hand tools.

Vol III Abrasive and miscellaneous processes which cannot be accomplished by cutting tools.

Vol IV Principles and practise of hand or simple turning.

Vol V Principles & practise of ornamental or complex turning.

3008. -----1852, Vol I, 3rd thousand

Turning | And | Mechanical Manipulation. | Intended As | A Work Of General Reference And Practical Instruction, | On The Lathe, | And The Various Mechanical Pursuits | Followed By Amateurs. | [orn rule] | By | Charles Holtzapffel, | Associate Of The Institution Of Civil Engineers, London; | Honorary Member Of The Royal Scottish Society Of Arts, Edinburgh; | Corresponding Member Of The American Institute Of New York; | Also Of The Franklin Institute, Philadelphia, | Etc. Etc. | [rule] | To Be Comprised In Six Volumes. | [rule] | Vol.I. | Materials; Their Differences, Choice, And Preparation; | Various Modes Of Working Them Generally | Without Cutting Tools. | Illustrated by upwards of Three Hundred Woodcuts. | London: | Published For The Author, | By Holtzapffel & Co., 64, Charing Cross, And 127, Long Acre. | And to be had of all Booksellers. | 1852. | [rule] | Third Thousand.

8°: 8, [7], [1 blank], 462, [18 advert] p(illust); 313 wood engravs. V dk brown, nearly black cloth, orn blind-stamped, title in gold on spine. Yellowish-tan endp. 22.3 x 14.2 cm(8 1/2 x 5 5/8 in). Te uncut, fe partly so. JSL.

Cont: 1/2tp(with press run fig); summary of proposed vols; tp; publ data; prefaces; gen sketch of cont; tab cont this vol; note of index to be placed in 3rd vol; text; adverts,

While the entire spectrum of materials from the vegetable, animal, and mineral kingdoms, which find use in the ornamental arts, is described herein, information of most interest to the lapidary and gemologist appears in Ch VII, 117-36, where nacre, shell, horn, tortoiseshell, and whalebone are described, their sources given, and general rules furnished for their preparation and working up into finished products, also in Ch VIII, 137-57, in which is found an excellent, detailed exposition on ivory of all kinds, and in Ch IX, 158-30, which deals with materials from the mineral kingdom. This last takes up such diverse substances as meerschaum, amber, jet, coal, alabaster, serpentine, steatite, marbles and limestones, igneous rocks, massive fluorite("blue john"), and also the ordinary jewelry gemstones as well as diamond. There are remarks on how diamond is to be used to make cutting tools. We now pass to Vol III which contains more material of gemological/lapidarian interest.

3009. -----1859, Vol III

Turning |...| By The Late | Charles Holtzapffel, |...[5 lines of mbrships] ...| [rule] | To Be Comprised In Six Volumes. | [rule] | Vol.III. | Abrasive And Miscellaneous Processes, Which Cannot Be | Accomplished With Cutting Tools. | Illustrated by upwards of One Hundred and Eighty Wood Cuts. | London: | Published By Holtzapffel & Co., 64, Charing Cross, And | 127 Long Acre. | And to be had of all Booksellers. | 1859.

8°: viii (first [2] p blank), [8] p + p 1026-1477 + [16 advert]p; text figs 1027-1211 (184). Same binding, etc. JSL.

Cont: blank f; ser tp; resume of cont of other vols; tp; publ data; pref to this vol; resume in more detail of cont of series; tab cont; errata; text (Chs XXXI-XXXVI); index to all 3 vols; advert.

This volume is of greatest interest, especially to the practical gem cutter and lapidary because the basic lapidary processes then in use are clearly explained and details given on equipment and accessories, ie, tools, abrasives, polishing agents, buffs, etc, plus the steps needed to bring up the work into a finished state. Ch XXXI comprises observations on grinding and polishing, followed by a fine descriptive catalog of apparatuses, materials, and processes. The next chapter explains the shaping of marble and other soft stones by abrasion and also describes an ingenious apparatus for making small spheres from glass or stone. Ch XXXIV is almost all lapidary work and treats sawing, lapping, grinding, polishing, and the faceting of gemstones. The next chapter is equally interesting because of its treatment of engraving upon gems & glass with particularly fine descriptions of tools and techniques. The sheer quantity of eminently useful information and advice contained in these two volumes, whose applicability is vouched for by myself from practical experience, makes these volumes and all others in the series veritable goldmines of Victorian mechanical expertise with much of the matter as useful today as it was then. Full sets, or for that matter, individual volumes are highly prized and almost impossible to obtain.

3010. -----1894, Vol III rev & enlarged

Turning |...| Followed By Amateurs. | [orn rule] | Volume III. | Abrasive And Miscellaneous Processes Which Cannot Be | Accomplished With Cutting Tools. | By The Late | Charles Holtzapffel, |...[4 lines]...| Revised And Enlarged | By | John Jacob Holtzapffel, | Associate Member Of The Institution Of Civil Engineers, London; | Corresponding Member Of The Franklin Institute, Philadelphia; | Past Master Of The Worshipful Company Of Turners; | Etc., Etc. | Illustrated by the original One Hundred and Eighty and Two Hundred and Fifty Additional Woodcuts. | London: | Published For The Author |

By Holtzapffel & Co., 64, Charing Cross, And 127, Long Acre. | And to be had of all Booksellers. | 1894.

8°: xx, 796 p; 430 fig; photo pl with tissue tip-in facing p 576. Same binding but bright yellow endp.

Cont: 1/2tp; other series vols; tp; publ data; gen summary of series cont; note on index to first 3 vols; pref; tab cont; errata; text; index.

Entirely rewritten and recast with only 13 chapters but with numerous sections under each. The first chapter now contains preliminary observations on the grinding & polishing processes with the second section being the large descriptive catalog of materials, apparatus, and processes, with short sketches of gemstones and ornamental stones and what laps and agents the lapidary must use to shape and polish them. Ch 5, 301-97, is on monumental stones from quarry to finished product. Ch 6, 398-427, explains production of flat surfaces on glass but the techniques and machines are applicable to gemstones or other hard materials. Interestingly, this chapter also contains a method for making a diamond prism. Ch 8, 469-530, describes how to make spheres out of hard materials, also lenses, small and large. Ch 9 on glass cutting also describes techniques applicable to gem materials. However, the chapters of special interest to the lapidary are ten, 582-628, and eleven, 629-50, treating specifically the business of gem cutting in all its phases as well as engraving gems. Ch 12, 661-32, also concerns the lapidary because it describes diamonds and how they are to be used in the manufacture of cutting and abrasive tools or media.

HOLTZAPFFEL, CHARLES, see BYRNE, OLIVER

HOLUB, EMIL(1847-1902)

Ger physician; b Bohemia; MD 1872; surgeon in diamond fields of South Africa 1872-3; took expeditions into the interior 1873-5, reaching Zambesi R and Victoria Falls; another exped in 1883. Pogg 4, 661. An appreciation, not always flattering, of the man & his work in W M & Vincent Buss *The Lure of the Stone: The Story of Henrietta Stockdale*, 1976, which see.

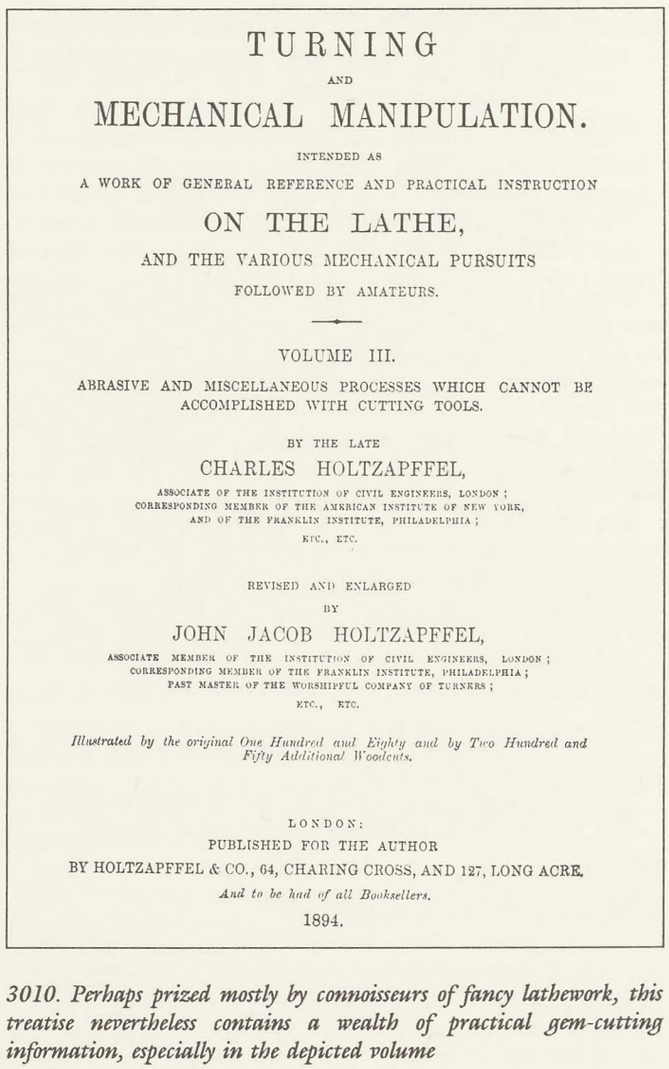
3011. -----1881

Sieben Jahre in Süd-Afrika. | Erlebnisse, Forschungen und Jagden | auf meinen Reisen von den Diamantfeldern zum Zambesi (1872-1879), | Von | Dr.Emil Holub. | [rule] | Mit 235 Original-Holzschnitten und Vier Karten. | [rule] | Erster[-Zweiter] Band. | Wien, 1881. | [rule] | Alfred Hölder, | k.k. Hof= und Universitäts=Buchhändler. | Rothenthurmstrasse 15.

Vol I: 8°: XVI, 523 p; wood engrav portr of author front; the total of 235 engravs about evenly divided between the two vols; those that are fullpage are printed recto, versos blank, but leaves integral & counted in pag. A col fold route map called for in first vol but actually bound up with the other maps at end of second vol. Green pebbled cloth, very elaborate decoration of front cover & spine, with Victoria Falls & title in gold, also part of same on spine, all framed in gold rules & black vegetation; back cover blind frames only. Pale tan-yellow endp. 23 x 16 cm(9 x 6 1/4 in). Cut. Ae marbled. Also issued in red cloth. Aeg. LC 2-18623. JSL.

Cont: 1/2tp; portr; tp; publ data; dedic; fwd; tab cont; tab cont of append with map note; ill list; errata; 13 chs; append.

Vol II: IX, [3], 532 p; 4 col fold maps bound-in at end. Cont: 1/2tp; tp; publ data; tab cont; tab cont of append; map list; ill list; errata; orn; text tp with vignette; 17 chs; append; maps.



TURNING

AND

MECHANICAL MANIPULATION.

INTENDED AS

A WORK OF GENERAL REFERENCE AND PRACTICAL INSTRUCTION

ON THE LATHE,

AND THE VARIOUS MECHANICAL PURSUITS

FOLLOWED BY AMATEURS.

VOLUME III.

ABRASIVE AND MISCELLANEOUS PROCESSES WHICH CANNOT BE ACCOMPLISHED WITH CUTTING TOOLS.

BY THE LATE

CHARLES HOLTZAPFFEL,

ASSOCIATE OF THE INSTITUTION OF CIVIL ENGINEERS, LONDON;
CORRESPONDING MEMBER OF THE AMERICAN INSTITUTE OF NEW YORK,
AND OF THE FRANKLIN INSTITUTE, PHILADELPHIA;
ETC., ETC.

REVISED AND ENLARGED

BY

JOHN JACOB HOLTZAPFFEL,

ASSOCIATE MEMBER OF THE INSTITUTION OF CIVIL ENGINEERS, LONDON;
CORRESPONDING MEMBER OF THE FRANKLIN INSTITUTE, PHILADELPHIA;
PAST MASTER OF THE WORSHIPFUL COMPANY OF TURNERS;
ETC., ETC.

Illustrated by the original One Hundred and Eighty and by Two Hundred and Fifty Additional Woodcuts.

LONDON:
PUBLISHED FOR THE AUTHOR
BY HOLTZAPFFEL & CO., 64, CHARING CROSS, AND 127, LONG ACRE.
And to be had of all Booksellers.
1894.

3010. Perhaps prized mostly by connoisseurs of fancy lathework, this treatise nevertheless contains a wealth of practical gem-cutting information, especially in the depicted volume

The text largely is an account of the author's three major expeditions into the interior from his base in Kimberley, with much detail on natural history objects, of which he was an avid and careful collector, as well as on the natives, their customs, food, dress, habits, dwelling, etc. In the course of seven years' residence he practised medicine between expeditions and at the same time accumulated a large collection of specimens, artifacts, etc. to take back to Vienna. Only a small part of the text describes or comments upon diamond and diamond mining and miners. Most of this material is found in the first volume in Ch 3, 60-101, and a little more in Ch 4, the first describing pipe-mining at Kimberley with several wood engravings of scenes and views of the mine workings before consolidation of claims. The second text mention deals with alluvial diamond mining along the Vaal River. This work was highly esteemed as evidenced by its reprintings and translation into English. A reprint of 1883 was not seen.

3012. -----1881, Engl transl, London

Seven Years In South Africa: | Travels, Researches, And Hunting Adventures, | Between The Diamond-Fields And The Zambesi (1872-79). | By | Dr.Emil Holub. | Translated By

Ellen E.Frewer. | With About Two Hundred Original Illustrations And A Map. | In Two Volumes. | Vol.I[-II]. | London: | Sampson Low, Marston, Searle, & Rivington, | Crown Buildings, 188, Fleet Street, | 1881. | [All rights reserved.]

Vol I: 8°: xi, [1 blank], 426, [1], [1 blank]p + 32 p publ bk cat; front portr pl of author with tissue tip-in; fold col map tip-in opp p 1; other ill in text(some tip-in pls not includ in pag). Brown cloth, title in gold & black on cover with scenes & orns in black; similar spine; blind stamped back cover with logo. Dk blue-gray dull finish endp. 22.2 x 14.5 cm(8 3/4 x 5 3/4 in). Uncut. USGS Kunz Coll. LC 4-22780.

Cont: front pl; tp; print data; pref; tab cont; ill list; map; 11 chs; print data; blank p; publ bk catalog.

Vol II: xi, [1 blank], 479, [1]p; front pl with tissue tip-in. Cont: front; tp; print data; tab cont; ill list; blank p; 17 chs; blank p; index to both vols; print data.

In the second volume of the copy examined, the title states "Second Edition" under the volume number, but so far as I can tell, this is only a reprint. No such second edition is noted except in the 1970 Detroit reprint below.

3013. -----1881, Boston

Seven Years In South Africa: |...| Boston: | Houghton, Mifflin, And Company, | The Riverside Press, Cambridge. | 1881.

Back cover lacks publ logo; endpapers black; no publ catalog in Vol I; no edit statement on either titlep. LC 2-14174. JSL.

3014. -----1970, Detroit reprint

Seven Years In South Africa: |...| Second Edition. | London: | Sampson Low, Marston, Searle, & Rivington, | Crown Buildings, 138, Fleet Street. | 1881. | Republished by | Negro History Press, P.O.Box 5129 | Detroit, Michigan 48236

Cementb: Vol I: [3 blank], [1], xi, [1 blank], 426, [2 blank]p; fold uncol map tip-in at p 426. Vol II: [3 blank], [1], xi, [1 blank], 479, [5 blank]p. Dk blue pebbled cloth, printed paper spine labels with pink horizontal bands. 20.9 x 13.2 cm(8 1/4 x 5 1/4 in).

3015. -----1971, New York reprint

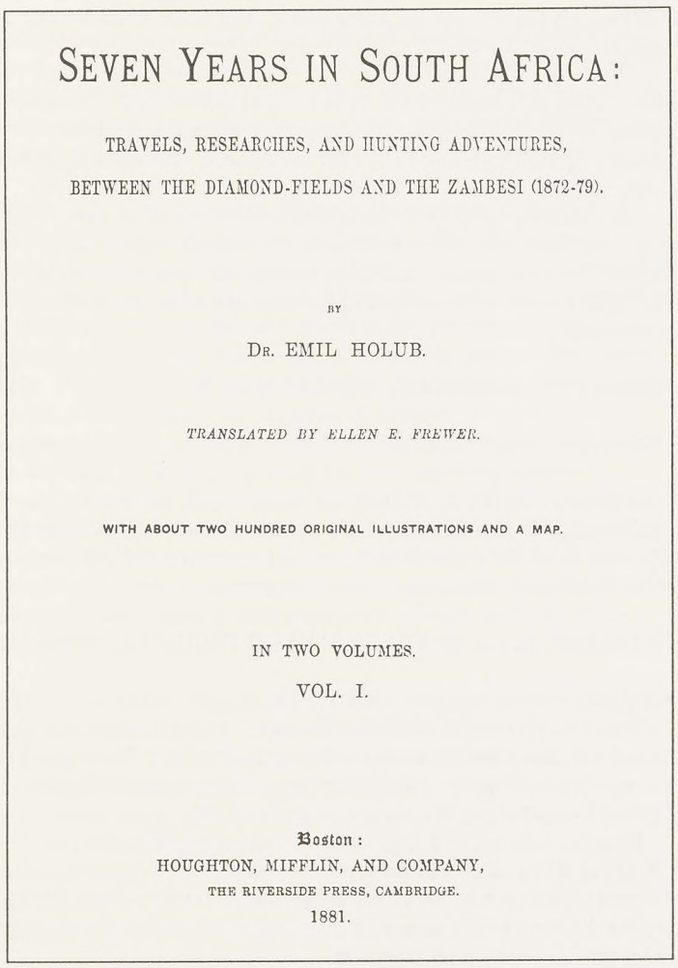
Seven Years In South Africa: |...| Boston: | Houghton, Mifflin, And Company, | The Riverside Press, Cambridge. | 1881. | Johnson Reprint Corporation | New York · London | 1971

8°:Vol I: [2], xi, [1 blank], 426 p; fold part col map in back cover pocket. Vol II: [2], xi, [1 blank], 479, [3 blank]p. Brown cloth, gold titles on covers & spines with vol nos; logos on spines. Pale blue endp. 21.5 x 13.9 cm(8 1/2 x 5 1/2 in). Cut. LC 71-134252.

3016. -----1976, Johannesburg reprint

Seven Years | in | South Africa | Travels, Researches, And | Hunting Adventures, Between | The Diamond-Fields And | The Zambesi, 1872-79 | by | Emil Holub | Translated by Ellen E.Frewer | [rule] | In Two Volumes | Vol.I[-II] | [rule] | African Reprint Library | Volume Five | Facsimile reproduction of the 1881 edition | [logo] | Africana Book Society | Johannesburg | 1976 [title in black & orange-brown] [Original title also reproduced]

Only one vol examined, hence pag omitted; front with tissue; green plasticized paper over bds, black rules, orns, scene on



SEVEN YEARS IN SOUTH AFRICA:

TRAVELS, RESEARCHES, AND HUNTING ADVENTURES,

BETWEEN THE DIAMOND-FIELDS AND THE ZAMBESI (1872-79).

BY

DR. EMIL HOLUB.

TRANSLATED BY ELLEN E. FREWER.

WITH ABOUT TWO HUNDRED ORIGINAL ILLUSTRATIONS AND A MAP.

IN TWO VOLUMES.

VOL. I.

Boston:
HOUGHTON, MIFFLIN, AND COMPANY,
THE RIVERSIDE PRESS, CAMBRIDGE.
1881.

3012. Originally published in German, the present work gives firsthand accounts of diamond mining in South Africa

cover & spine with gold title on cover & spine. Back cover with blind horizontal rules & logo. Tan endp with elephant scene. 21.3 x 13.6 cm(8 3/8 x 5 3/8 in) Cut. Te stained yellow. LC 76-377088; ISBN 0 949973 16 5.

3017. HOLZHAUSEN, W Dresden-Prager Glas- und Steinschnitt um 1600. *Neues Archiv f Sächsische Geschichte*, Dresden, 35, 1934, 86-118. Not seen.

HOME, R W, see AEPINUS, F U T, 1979

3018. HOMÈS-FREDERICQ Les cachets mesopotamiennes protohistoriques. Leiden 1970. viii + 199 p; 51 pl. Buckram. 29.5x 23 cm. Not seen; from T Heneage, London, Cat 8, 1984, no 328.

3018A. HONG KONG COLONY. HONG KONG MUSEUMS OF ART Chinese Jade Carving. Hong Kong 1984. Engl & Chin text. 302 p, 291 col pls; orig green cloth, pictorial dj. "An important exhibition jointly presented by the Min Chiu Society and the Urban Council of a definitive 291 examples of jade carving. Articles by Ip Yee on the 'Terminology of archaic jade', by Cheng Te-k'un on 'A general survey' and Brian

McElney on the 'Search for Song jades', Not seen; from Lyon, Engl, cat 1987, no 526.

3019. HOPE, FREDERIC WILLIAM(1797-1862) Observations on succinic insects. *Trans Entom Soc London*, 1, 1836, 133-47; 2, 1837, 46-57, Pl 7. Not seen; from Scudder bibliogr p 69: "general remarks on the insects found in amber and gum anime, followed by a list of insects hitherto noticed by the author or known to Berendt. The species are all claimed as distinct from the recent, and to be tropical in their affinities." The author took holy orders but devoted career to study of entomology; DNB.

HOPE, F W, see LOWN, C & BOOTH, H

HOPE, H P, see HERTZ, B, 1838

3020. HOPFNER, THEODOR Lithika.[art in] *Paulys Realencyclopädie der classischen Altertumswissemschaft*, N.B. Edit G Wissowa et al, Stuttgart, 1893-, v 13, 1, columns 747-69. Not seen. Same: publ Stuttgart 1927. Not seen.

HOPKINS, E, see JEWELERS' CIRC PUBL CO, 1906

3021. HOPKINS, EMMA CURTIS

The Twelve Jewels Of Christ-Character | or | Foundation Stones Of The New Jerusalem | Excerpts from the Writings of | Emma Curtis Hopkins | Published by | Emma Curtis Hopkins Fund | Cornwall Bridge, Conn. [nd, ca 195-?]

Edgestapled: [2], 14 f; pale blue wrap, cover title. 28 x 21.7 cm (11 x 8 1/2 in). JSL. Excerpts from her *High Mysticism* and *Scientific Christian Mental Practice* giving quotations from Bible on the 12 foundation stones; it is interspersed with unintelligible exhortations in mystical language.

HOPKINS, THOMAS CRAMER(1861-1935)

USA geol; PhD U Chicago 1900; DSc Colgate U 1923; asst in Arkansas Geol Survey 1889-92; Indiana Geol Survey 1895-6, 1901; prof geol Pa State Coll 1896-9; prof Syracuse U 1900-32.

3022. -----1893 Ann Rpt Geol Survey Ark 1890. Vol IV. Marbles and other limestones. Little Rock: Brown Print Co, 1833, 8°: xxi, [2 blank], [1], 443, [1 blank]p; 28 [recte, 27] tip-in pls(2 fold); 17 fig. Black cloth, gilt. 22.2 x 14.8 cm (8 3/4 x 5 3/4 in). Cut. Exam several copies shows that Pl 11, p 226 not issued. JSL. Geology & mineralogy of deposits, and with much other information on marble & limestone deposits elsewhere in the USA and other countries. Also mentions "cave onyx," or calcite stalagmitic material found in the state. Includes chapters on quarrying and working of stone with considerable information on lapidary equipment and abrasive & polishing agents. LC 5-5438.

HOPKINS, T C, see AUBURY, L E

3022A. HORICK, PAUL J

Iowa Geological Survey Educational Series 2 | The Minerals Of Iowa | by | Paul J.Horick | Geologist, Iowa Geological Survey | edited by | Otto Knauth and Samuel J.Tuthill | Published by the | State of Iowa | 1974 [Iowa City]

Centerstapled oblong: [10], 88, [2 blank]p; 15 pls(5l col photos, 12 b&w), sketch map, 43 line crystal drawings; logo; fold geol map in pocket with fold stratigraphic column chart. Col wrap, col photo on cover. 21.5 x 28 cm (8 1/2 x 1] in). Cut. LC 74-620075. JSL.

Cont: tp; publ data; fwd; pref; tab cont; ill lists; logo; introd; 7 chs; biblio(p 55-60, 38 entries); gloss; 4 appends; index; blank f.

First full report on the state minerals: elements of mineralogy and crystallography, suggestions for collecting, locations, identification tables, lengthy descriptive list of minerals found in Iowa. includes pearls and mother-of-pearl shellfish, calcite onyx, silicified coral, silicified wood, native agates, Lake Superior agates, chert & flint, and a mention of a green diamond crystal found at Dubuque(p 55). Attractive, useful, but photos lack sharpness.

3022B. HORN, EFFI

Effi Horn | Perlen, Gold und Edelsteine | Echter Schmuck- | sein Wert | und seine Schönheit | Verlag Mensch und Arbeit München [1966; title in pale blue & black]

Cementb: 199, [1]p; 17 col pls on 8 glossy f; 38 fig; 3 tabs. Numerous ch orns, text title, etc, in blue & black; some leaves overprinted in blue in whole or part. Black, unfin cloth, gold title with dot on cover & spine. Pale blue endp, dec in white & black pearl necklace. Col dj; col photo on cover; resume; tab cont; other publ bks. 20 x 15 cm(7 7/8 x 5 7/8 in). Cut. Mk 18. JSL.

Cont: 1/2tp; publ data; tp; tab cont; quot; text tp; text; list of museums & treasuries; index; credits; biblio(23 entries).

In three major parts: pearls, gold, and precious stones, each part with numerous subsections. Mainly on cultural and romantic aspects, with much on persons and their precious possessions, with some information on commerce and less on the technical and scientific aspects. The part on pearl is quite large, p 7-57, but mostly enphasizes the cultured pearl; topics include origin, cultivation, marketing, values, fashion, personal adornment. The part on gold treats early history, sources, mining, properties, alloys, uses in jewelry and in other applications. The largest part is on gemstones, p 103-193; topics include important property information, lapidary work, the major gemstones, famous diamonds, synthetics, initations, engraved gems, and old & new styles of ornament. An unusual feature: museums & treasuries in which may be seen exactly the kinds of ornaments discussed in the text. The illustrations are particular attractive and include old prints, portraits, scenes in workshops, etc, and with color plates depicting famous persons, fine pieces of jewelry, and cut & rough gemstones.

3023. HORN, JEANNE

Hidden Treasure | How and where to find it | [orn] | by Jeanne Horn | [logo] | Arco Publishing Company, Inc. | New York [1962]

16°: xiv, 234 p; col front glossy photo pl tip-in + 5 others also tip-ins and not includ in pag; 33 photos on 16 glossy pls bound-in & includ in pag. Vermilion cloth, gold urn on cover; gold lett spine. Dj(?). 23.3 x 15.7 cm (9 1/4 x 6 1/4 in). Cut. LC 62-21610. JSL.

Cont: 1/2tp; pl; tp; publ data; fwd; tab cont; ill lists; introd; 34 chs; biblio(p 227-39, 11 entries); index.

Catering to the "get-rich-quick" desire possessed by almost everyone, this mistitled book tells about lost works of art, jewels,

gems, rare books, religious and other treasures, with the implication that if one only keeps his eyes open, he too may stumble on an enormously valuable find. There is no practical advice at all but the book does make exciting reading and visually appeals via several fine color plates of Fabergé bibelots whose locations are unknown, also other "treasures" illustrated in black and white that also said to be lost. There is an interesting chapter on jewels, p 29-38, in which some famous gems are mentioned, another on diamonds, 177-81, principally on the diamond fields of the United States, and still another, 206-10, on native gemstones. All of it is written in sensational style.

3024. HORN, PAUL Sasanidische Gemmen aus dem British Museum. *Deutsche Morgenlandische Gesellschaft Zs*, 44, 1890, 650-78. Not seen.

3025. HORNELL, JAMES(1865-)

Report | To The | Government Of Madras | On The | Indian Pearl Fisheries | In The | Gulf Of Mannar | By | James Hornell, F.L.S., | Marine Biologist to the Government of Ceylon and Inspector of Pearl Banks. | [orn rule] | Madras: | Printed By The Superintendent, Government Press. | [rule] | 1905.

Edgestapled: [5], [1 blank], 107, [1 blank], [1], [1 blank]p; 2 part-col figs; 6 maps(5 part-col); diagrs(one part-col). Pale green paper over cdbds; green cloth spine, cover title. 33.5 x 21 cm(13 1/4 x 8 1/4 in). Flush cut.

Cont: tp; tab cont; pref; text; append(A-E); annexes(I-IX).

A special report on the then condition and future prospects of the pearl banks off the coast of Madura and Tinnevelly, the aim being to "sift the whole of the evidence available, historical, zoological and physiographical; to present the conclusions in a simple and succinct form and to formulate remedial measures." The first chapter is historical and important because it reaches back to the arrival of the Portuguese, pre-1524, and continues to 1900, delivering a chronology and commentary that would be extremely difficult to synthesize otherwise. Other chapters deal with hydrography, nomenclature and meaning of names of the several banks, narrative of the examination conducted in 1904(see CEYLON MARINE REPORTS, etc), and lastly, conclusions and recommendations. The appendixes are historical documents from 1663 to the time of writing, and the annexes are charts of the banks. It is noted that this publication was not for sale which suggests it received very limited distribution and hence must by now be a considerable rarity.

3026. -----1914 *Madras Fisheries Bureau. Bulletin No.7.* The Sacred Chank of India: A Monograph of the Indian Conch(Turbinella Pyrum). By James Hornell... Illustrated with 18 Plates. Madras: Printed by the Superintendent, Government Press. 1914. 8°: VIII, 181 p; 29 photos & sketches on 18 glossy f bound-in at end(1 pl is front); 2 fig. Pale green cloth, white border frame & lett on cover; white rules & lett spine. Front fly lists publ agents. 24.1 x 15.6 cm(9 1/2 x 6 1/8 in). Cut. 2 rupees or 3 s. Highly detailed study of a non-nacreous conch much esteemed among certain segments of the Indian populace for use in the manufacture of personal ornaments and religious tokens. The text treats fisheries in Ceylon and India, the bangle industry, role of chank in Indian life and religion, with the last part of the text consisting of several appendixes furnishing production statistics and results of fishing campaigns. Hornell delved deeply into ancient writings and accounts of early travelers in India to trace the history of the chank, its fishing, manufacture into ornaments, and the like. There are interesting details on the modern manufacturing methods, with useful illustrations, showing tools used and steps followed during processing.

3027. -----1916 *Madras, Fisheries Department. Bulletin No.8.* Marine Fishery Investigations in Madras 1914-15 By James Hornell... Madras: Printed by the Superintendent, Government Press. 1916. 8°: [4], [1 blank], 126 p (the letterpress commences on verso of front flyleaf!). Various ills, photos, part-col. Dk green pebbled cloth, title in white in box on cover; white spine title. 24 x 15.5 cm(9 1/2 x 6 1/8 in). Cut. 1 rupee 12 annas, or 2s 6d. USGS Kunz Coll. In parts as follows: 1 edible oyster; 2 explanation of irregularly cyclic characters of the pearl fisheries in the Gulf of Mannar; 3 notes on two exploring cruises in search of trawling grounds off the Indian and Ceylon coasts; 4 report on the pearl fishery held at Tondi, 1914, p 43-92, with 5 part-colored plans & map; 5 Professor Huxley and the Ceylon pearl fishery, with a note on the forced or cultural production of free spherical pearls; 6 utilization of coral and shells for lime-burning.

3028. -----1916 The Indian conch(Turbinella Pyrum Linn.) and its relation to Hindu life and religion. *Rept to the Govt of Baroda on the Marine Zool of Okhamandal in Kattiawar*, Pt 2, London: Williams and Norgate, 1916. 8°: xii, 165 p, pls, fig; tab. Green cloth, gold lett cover & spine. 35 x 24.1 cm(12 x 9 1/2 in). Cut. Subject essay is Report I, p 1-78, and is accompanied by 7 tip-in photo plates, 2 text figures and a table. Hornell describes the chank conch and its use in the ceremonies of religion and as used for the manufacture of ornaments, jewelry, and amulets, also in medicines. Further described are the zoology of the chank, its habitats, and other matters concerning its natural history. High quality plates.

3029. -----1922 *Madras Fisheries Department. Bulletin, Vol.XVI.* The Indian Pearl Fisheries of the Gulf of Mannar and Falk Bay by James Hornell... Printed by the Superintendent, Government Press...1922. 8°: iv, 188, [2]p; 13 text fig (2 parL col); 1 tip-in chart of fishing grounds. Dk green cloth, white lett in white frame on cover; white lett spine. Front flyleaf listing of agents. 23.7 x 15.3 cm(9 3/4 x 6 in). Cut. 2 rupees 8 annas. USGS Kunz Coll, GS 34-683. Exhaustive, highly detailed description of the pearl fisheries and banks along the southern end of the Indian Peninsula and the history of the fisheries and the recovery of pearls, the character of the banks, bottom features, zoology of the pearl mollusk, formation of pearls, and a series of administrative problem discussions. The appendixes contain translations of several early eye-witness accounts dating to 1663-1774. Contains especially valuable historical information.

3030. -----1924 Madras Fisheries Department. Report on the inspection of pearl banks in the Gulf of Mannar and Pal Bay in March and April 1923 by James Hornell... *Report No.6 of 1923 Madras Fisheries Bulletin, Vol. XVII*, pages 199 to 214. Madras. Printed by the Superintendent, Government Press. 1924. Center-sewn; printed dull green wrap, cover title, other publications list on back cover & inside covers. 24.8 x 15.5 cm(9 3/4 x 6 1/8 in). Cut. 3 annas.

HORNELL, J, see CEYLON GOVT PEARL FISHERY REPTS

3031. HÖRNER, FRIEDRICH

Beiträge | zur Kenntnis des Stauroliths | Mit einem Anhang über eine | Wülfingsche automatische Schleifmaschine | Mit einer Tafel | [taper rule] | Inaugural-Dissertation | zur | Erlangung Der Doktorwürde | der | hohen naturwissensschaftlich-mathematischen Fakultät | der | Ruprecht-Karls- Universität zu Heidelberg | vorgelegt von | Friedrich Hörner | aus Malsch bei Wiesloch | [logo] | Heidelberg 1915 | Carl Winters Universitätsbuchhandlung

8°: 41, [2]p; glossy pl with 2 photos tip-in; 9 tabs. Pale brown print wrap, cover title. 23.3 x 15 cm(9 1/4 x 5 7/8 in). Cut. JSL. GS 16-66.

Assembles optical & physical data on staurolites from 8 localities; the deposits briefly described, crystallography, cleavage, pleochroism, refractive indexes, specific gravities & 2 new chem analyses; appendix describes automatic lapidary machine devised by Prof E A Wülfing(plate).

3032. HORNSBY, A H The South African Diamond Fields. A Practical Matter-of-Fact Account to the latest date. Chicago: Inter-Ocean Steam Book and Job Print, 119 Lake Street. 1874. 8°: 78 p. Not seen, from Mendelssohn, "a curious account of the "New Rush" (Kimberley Mine and Township, with Glossary of Terms, Maps, and Illustrations."

3033. HORNUNG, E & STAEHELIN, E, editors Skarabäen und andere Siegelamulette aus Basler Sammlungen (Aegyptische Denkmäler in der Schweiz, I.). 1977, 400 p, 19 pls, 3,000 ill. Not seen: from a bookseller's catalog, 1978.

HOROVITZ, M, see MENZHAUSEN, J, 1965

3034. HORSTER, GERTRUD

Statuen Auf Gemmen | von | Gertrud Horster | [logo] | Rudolf Habelt Verlag GMBH · Bonn | 1970 [Habelts Dissertationsdrucke, Reihe Klassische Archäologie, Heft 3]

Cementb: [8], 136 p + 23 glossy pl(94 photos). V pale green print wrap; title on cover & spine. 20.9 x 14.7 cm(8 1/4 x 5 3/4 in). Cut. JSL.

Cont: blank p; ser tp; tp; press data; tab cont; fwd; abbrev & biblio; introd; text; index; gems index; statues index; pls index; pls.

Engraved gems in several European collections were studied during personal visits by the author to discover and describe those with statuary motifs; purpose: to attempt a reconstruction of the original "perfect" state of certain statues from antiquity which are in imperfect states in museums. First part on Greek, Etruscan, Italian, Hellenistic gems; second part Roman gems.

3035. HORSZOWSKI, S M The physical properties of diamond. *Diamant*, Bruxelles, 1 & 2, 1963, 16 p, ill. Not seen.

HORTUS SANITATIS, see CUBE, JOHANN VON

3036. HOSTEN, H The Pitt diamond and the eyes of Jagannath (Puri). *J & Proc Asiatic Soc Bengal*, ns, 8, 1912, 133-44. "Quotes many authorities in support of his contention that the Pitt diamond was not stolen from an Indian temple." Not seen.

3037. HOTEL DROUOT [Auction catalog:] Les pierres gravées antiques. Collection d'un archéologue-explorateur. Folio, 16 pls of engrav gems. Paris 1905. Not seen.

3038. HOUBEN, PHILIPP & FIEDLER, FRANZ

Denkmaeler | Von | Castra Vetera | Und | Colonia Traiana | In | Ph. Houben's Antiquarium | Zu Xanten | abgebildet auf XLVIII colorirten Steindruck-Tafeln | nebst einer topographische Charte. | Herausgegeben | von | Philipp Houben, | Königl. Preussischen Notar zu Xanten, Ehrenmitgliede der antiquarischen Gesellschaften | in Trier, Minden und Wetzlar; | mit Erläuterungen | von | Dr.Franz Fiedler, | Königl. Professor am Gymnasium in Wesel, ordentlichen und correspondirenden Mitgliede | der historisch- antiquarischen Gesellschaften in Halle, Münster und Wetzlar. | [orn rule] | [double rule] | Xanten, 1839.

Not seen; from a photographic reproduction of the titlepage in P & H Zazoff, *Gemmensammler*, p 192, which see. "A milestone in the history of engraved gem publications... [because] for the first time appear here colored lithographic plates upon which engraved gems are reproduced not only with their pictures but as entire stones in original sizes... also, the stone materials,e.g., the agates, with very good representations of their structure and color."

HOUDAS, O, see BERTHELOT, P E M

3039. HOUGHTALING, CORA B

Rock Hounding Out Of Bishop | by | Cora B.Houghtaling | Printed by the Chalfant Press, Inc. | Bishop, California | Copies may be ordered from | Cora B.Houghtaling | 3071 W.Line St. | Bishop, Calif., 93514 | First Printing, May, 1967 | $2.00 per copy

Centerstapled: [4], 63, [1 blank]p; 50 sketches & sketch maps. Heavy pale orange-tan printed & dec wrap; cover title with sketch. 22.9 x 15.2 cm (9 x 6 in). Cut. JSL.

Mineral & gemstone collecting sites around Bishop, California and into adjacent Nevada: obsidian, opal, silicified wood, jasper, agate, turquoise. Crude sketches of little value; errors of fact.

3040. HOUTTUYN, MARTINUS Vertoog over de veranderlyke steenen, oculis mundi genaamd. *Verhandelingen uitgegeeven door de Hollandse Maatschappye der Wetenschappen te Haarlem*, deel 20, stuk 1, (nd), p 311-30. On hydrophane opal; not seen: Banks Catalogue.

HOW, H, see GESNER, A

3041. HOWARD, ARTHUR DAY Department of Commerce. Bureau of Fisheries... Experiments in propagation of fresh-water mussels of the Quadrula group... Appendix IV to the *Report of the U.S.Commissioner of Fisheries for 1913*, Bureau of Fisheries Document No.801, Washington, 1914. Centerstapled, dull green printed wrap, cover title: title leaf + p 1-52 + Pls 1-6, 4 tabs; refs. Natural history of the mussel, its life-cycle, growth problems, descriptions of several species involved in the experiments, and methods of growing them.

3042. -----1922 Experiments in the culture of fresh-water mussels. *Bulletin, Bureau of Fisheries*, Vol 38, 1921-22,

Document No.916, issued May 12, 1922, Washington, 1922. Separate: centerstapled, dull green print wrap, cover title: title leaf + p 63-89, Fig 58-75, tabs, refs. Obtaining juveniles, growth in floats and tanks, development, habits, results, recommendations.

3043. HOWARD, DOMER L No ghosts at Yogo. *Lap J*, 16, 1, 1967, 65-77, ill, maps; 2, 228-30, 232, 234-36,238-41, 7 refs. On the Yogo Gulch sapphire deposits in Montana.

HOWARD, JAMES HARRY (1887-1962)

USA electrical engineer, businessman; b Morgantown, NC; ret 1953 from presidency eng firm in Greenville, SC; became interested in amateur lapidary work in 1920; due to lack of publications, conducted much experimentation on many kinds of gemstones and the machinery required to cut and polish same, including faceted work; his results were published and strongly influenced and encouraged the amateur lapidary movement in the USA. Obit, *Lap J*, 16, 6, 1962, 587; rev of writings by J C Dahlberg, ibid, 25, 7, 1971, 966-70; obit, *R & M*, 37, 7/8, 1962, 425.

3044. -----1931

The Working of | Semi-Precious Stones | [rule] | A Brief Elementary Monograph | [rule] | By J.H.Howard | [agate photo] | Courtesy Geo.O.Wild | An Eye Agate | Published By | Rocks and Minerals | Peekskill, N.Y. [1931]

Wrap cover title above; p [1]: "Bulletin No.1 Price $1.00... First Edition - 3000 Copies..."

Centerstapled: 37, [7 advert]p; 12 fig, 1 photo, Pls 1-17 (actually 17 text photos). Pale brown heavy paper wrap, black lett, title & photo on cover. 22.2 x 15 cm(8 3/4 x 6 in). Cut. GS 31-229. JSL.

Cont: cover title; tp with adverts; publ data; fwd; introd; 5 chs; append; advert.

First formal treatise on amateur lapidary work published in the United States. Due to the lack of lapidary equipment for amateurs, Howard was forced to make his own and therefore spends much time in his book telling how it can be made and operated primarily to make cabochons but also faceted gems. The appendix is historically important because it consists largely of photographs showing machinery and methods of operation devised by Maine lapidaries from sawing and grinding rough to polishing faceted gems. Some of the illustrations are taken in the workshops of Knox Bickford of Norway and Loren B Merrill of Paris, Maine. Rev: C B Slawson, *Amer Min*, 16, 9, 1931, 409.

3045. -----1935

Handbook [double-rule underline] | For The | Amateur Lapidary [double-rule underline] | By | J.Harry Howard | Author Of | The Working Of Semi-Precious Stones | [double-rule] | Designed To Provide Practical | Instruction In All Kinds Of Gem | Cutting For The Beginner And | For The Advanced Amateur. :: | [double-rule] | Published | By | J.H.Howard | 504 Crescent Avenue | Greensville, S.C. | 1935 [entire title enclosed in single-rule frame]

8°: 140 p (first 2 p blank) + [10] advert + 2 blank p; 44 fig. Stiff gray-blue paper wrap stamped in reptile-skin embossing; gold title & frame on cover. 19.7 x 12.5 cm(7 3/4 x 5 in). Pale blue endp. Cut. $2.00. JSL.

Cont: blank f; tp; publ data; tab cont; introd; 16 chs; advert; blank f.

Greatly expanded version of author's first work now incorporating chapters and sections on sawing, cabochon-making, faceting, drilling, large flats, bead-making, optics of brilliant cuts, orientation of rough, mosaics, impregnation of gem materials, coloring agates, carving & engraving, the principles of diamond cutting, miscellaneous useful information and sources of machine parts & supplies. Ch 11, 113-4, on the coloring of agate was written by E V Van Amringe, and extracted from the *Bull Mineralogical Soc Southern Calif*. Rev: B W Anderson, *The Gemm*, 5, 52, 1935, 87-9; R & M, 10, 11, 1935, 175.

3046. -----1940, rev edit Title same but with new date. 8°: 141 p (first 2 p blank + [3 blank]p; 44 fig. Stiff paper covers deeply stamped in leather grain with orn frame surrounding a recessed tablet in gold with raised gold lett on cover; title on spine. Pale greenish-blue endp. 19.7 x 12.6 cm (7 3/4 x 5 in). Cut. $2.00. JSL. Publ data now indicates this is the "Second printing... 1940." Thc last [3]p are on pale blue paper, loose, and furnish "Addenda" which are actually more like errata. Some changes in last chapter "Sources of Supply", etc.

3047. -----1946, rev edit

Revised [double-rule underline] | Lapidary [double-rule underline] | Handbook [double-rule underline] | By | J.Harry Howard | Author Of | "The Working Of Semi-Precious Stones" | And | "Handbook For The Amateur Lapidary" | [double-rule] | Designed To Provide Practical | Instruction In All Kinds Of | Gem Cutting For The Beginner | And The Advanced Amateur.:: | [double-rule] | Published | By | J.Harry Howard | 504 Crescent Avenue | Greensville, South Carolina | U.S.A. | 1946 [Enclosed in single-rule frame]

8°: 220, [4 blank] p; front photo; 50 fig; 4 doublepage diagrs showing many facet cut styles. Bright blue cloth, gold lett on cover & spine. 19.6 12.7 cm(7x3/4 x 5 in). Cut. $3.00. JSL.

Cont: blank p; front; tp; publ data; tab cont; introd; 20 chs; index; 4 blank p.

Greatly revised and expanded; uses same scheme of presentation but with added chapters, ie, advanced faceting by G G Waite, sphere-making, making bracelets & rings, hand-cutting of gems by C C Curtis & the author, and a chapter on diamond abrasives. The chapter on rough orientation eliminated but substance incorporated elsewhere. The plates of facet cuts were prepared by Waite and are the first large choice of cutting styles to appear in an American technological book. Another valuable illustration is also by Waite and depicts in a mechanical-drawing a loose-dop faceting machine devised & constructed by himself. Added miscellaneous information: lists of hardness and refractive indexes; short biblio(p 209-10, 29 entries). Rev *G & G*, 5, 6, 1946, 333. Second printing, date not indicated, bears dedic on p [5] while tab cont moved to p 6 and pagination beginning here instead of p 12. Price same.

3048. HOWARD, J W Sapphires. *J of Chem Education*, 8, 4, 1931, 613-24, 10 ill. Centerstapled offprint in pale tan wrap, title on cover. 23.6 x 15.9 cm (9 1/4 x 6 1/4 in). Cut. JSL. A general article, but with special remarks on the alluvial sapphire crystals of Montana and with several photographs of operations by tke American Gem Mining Syndicate in Rock Creek.

3049. HOWARTH, STEPHEN

The | Koh-I-Noor | Diamond | The History And The Legend | Stephen Howarth | [logo] | Quartet Books | London Melbourne New York [1980]

8°: 160 p; doublep route map in text; 54 photos and 12 col ill on 16 glossy f bound-in. Dk maroon cloth-type paper over bds; title in blind frame on cover; gilt spine title. Col dj, resume. 28 x 19.4 cm(11 x 7 5/8 ill). Cut. £ 15.00. ISBN 0 7043 2215 3. JSL.

Cont: 1/2tp; tp; publ data; tab cont; dedic; ill list; pref; map; list of Koh-I-Noor owners; 12 chs; biblio(p 153-5, 77 entries); index.

The title suggests that this is a very full history of the Koh-I-Noor but the facts developed are no more than those to be found in available books on famous diamonds. By far the greatest space, as interesting as its content may be, is devoted to a recital of Indian legend and the history of India and surrounding kingdoms into modern times, all of this presumably to provide a background for any discussion of the diamond itself. Thus the first part of the text dicusses and quotes from Hindu Vedas and Puranas, and the *Ramayana* and *Mahabharata*, in which precious stones are mentioned, with one principal stone being tenuously claimed to be the Koh-I-Noor. The second part is somewhat more germane but even so speaks only in detail of the fate of the diamond. There is a good chapter on Tavernier and his voyages. The bibliography is large but only few entries concern the Koh-I-Noor, however, most of the works on famous diamonds are included.

HOWE, E G, see THOENEN, J R, et al

3050. HOWELL, DAVID H Pipestone and red shale artifacts. *Amer Antiquity*, 6, 1, 1940, 45-62, Pls 9-10. JSL. Chemical & mineralogical examinations of catlinite and red shale as used in early American Indian artifacts; samples materials from several sources.

3051. HOWES, MICHAEL

[double-rule] | Amulets | [double-rule] | Michael Howes | [logo] | Robert Hale & Company · London [1975]

8°: 190, [2 blank]p; 9 line drawings; 16 photos on 4 bound-in glossy f. Pale, turquoise-blue cloth-type paper over bds; gilt spine title. Col dj; resume; portr; vita; advert. 21.6 x 13.8 cm(8 1/2 x 5 3/8 in). Cut. ISBN 0 7091 4897 6. JSL.

Cont: 1/2tp; tp; publ data; tab cont; ill lists; 12 chs; index; blank f.

Traces origin, forms, and materials of amulets from Pre-Dynastic Egypt through early Near East and Far East cultures into Greek and Roman times, and lastly into modern periods, with remarks on the use of amulets in Africa, the South Seas, and the Americas, References to gemstones appear in many places but special treatment of mineral materials appears in Ch 11, on stones and their modern meanings, 149-66, in which is treated the symbolic and astrological uses as well as descriptions of such uses specifically for agate and other gemstones to turquoise, and including salt, coal, sulfur, toadstone, and pumice. The author is said to be an authority in this field but provides no bibliography and only several references. The material on gemstones and other minerals is meager.

3052. -----1976, New York

[double-rule] | Amulets | [double-rule] | Michael Howes | New York | St.Martin's Press, Inc. [1976]

Paper on bds is pale purplish-blue. LC 74-33916. $7.95.

HOWKINS, J B, see EDWARDS, C B

3053. HOYT, EDWIN P

The | Jewel Hunters | by Edwin P.Hoyt | Illustrated by Earl Thollander | [logo] | An Atlantic Monthly Press Book | Little, Brown and Company | Boston Toronto [1967]

8°: [1 blank], [8], [1 blank], 164, [2 blank], 10 full-page ill in pen & wash. Greenish, mustard-yellow unfin cloth; black title on cover & spine. Brown dj, col drawing on cover, another in b&w on back; resume, other bks. 20.3 x 13.6 cm(8 x 5 3/8 in). Cut. $4.25. LC 67-17291. JSL.

Cont: blank p; other bks of author; 1/2tp; tp; publ data; dedic; tab cont; 11 chs; biblio(p 159, 14 entries); index; blank f.

Exciting stories for juveniles on precious stones, with much on famous diamonds and the adventures surrounding their change in ownership, also on pearls and pearling and gemstones of Burma and Ceylon. Other chapters take up emeralds, sapphires, and other gems, and a final chapter is devoted to jewels in which the gems played a major role. On the whole the information is accurate and not overly romanticized.

3054. -----1967, library edit, in plastic-coated buckram, with white panel on on front showing an Indian thief, brandishing a dagger, and holding a bag of jewels; this ill is on the dj of the above edit; there is also a small white panel with similar depiction, plus title, on spine. 19.6 x 12.7 cm(7 3/4 x 5 in). Cut. Otherwise identical.

3055. HSI YÜ WÊN CHIEN LU According to Nott, *Chinese Jade Throughout the Ages*, p 169, "published in A.D. 1777, by a Manchu author, an excellent treatise on Chinese Turkestan and the working of the jade quarries. (An extract from this excellent writing will be found in Bushell, *Chinese Art*, vol.I, p.129, and Pope-Hennessy, *Jade*, p.7.)"

3056. HSU, EDWARD Y

Jade | [yü character] | [logo] | Information Series ... [sic] Issued By | Hong Kong Tourist Association [1961; "Information Series No.2"]

Centerstapled: 16 p; 16 b&w photos; 10 col photos. Pale green embossed paper wrap, title & orn on cover; publ data inside covers. 18.7 x 12.8 cm(7 3/8 x 5 in). Cut. HK $1.50. JSL. For tourists interested in buying jade: general information, history of jade in China, mineralogy, colors, imitations & substitutes, notes on special forms, Chinese terms. Useful.

3057. HSÜ SHOU-CHI Yu p'u lei pien... A handbook giving explanations of the terminology of jade. 4 chs. 1889. Not seen, from S H Hansford, *Chinese Jade Carving*, 1950, p 131.

3058. HUANG, C K [Two gemstones - blue chalcedony and nephrite - from eastern Taiwan.] *Taiwan Mining Industry,* 17, 1965, 58-65. Not seen: *Min Abstr*, 18, 2, 1967, 101.

3059. HUANG CHÜN Heng-chai ts'ang-chien ku-yü-t'u [Illustrations of ancient jades collected or seen, in the Heng-chai studio.] Peking, 1935. Not seen, from Loehr & Huber, *Ancient Chinese Jade*, 1975, 435.

3060. -----1939 Ku-yü t'u-lu ch'u-chi [Illustrated catalog of ancient jades, part 1.] Peking, 1939. Not seen; ibid.

3061. HUANG TSUN or CHUN Heng chai ts'ang chien kü yu t'u [Illustrated ancient jades collected and seen at the Heng Chai Pavilion.] Peiping, 1935, 2 vols. Not seen; mentioned by both Goette and Hansford; compare to no 2856 above. It is said to be a collection of excellent illustrations without any textual descriptions; the work was published by a dealer in jades in Peiping.

HUBER, L G F, see LOEHR, M, 1975

3062. HUBERT, E D'

Les | Verres et Cristaux | le Diamant et les Gemmes | Par | E.D'Hubert | Docteur Ès Sciences | Professeur A L'École Supérieure De Commerce De Paris | Examinateur A L'Institut Commercial | [rule] | Avec 40 figures | [in ruled frame:] Les Verres et Cristaux | Définition Des Verres. - Préparation Et Travail Du Verre | Statistique Des Verres Et Cristaux. | Le Diamant et les Gemmes | Généralités. - Diamant. - Pierres Artificielles. | Commerce Et Statistique. [end of frame] | Paris | Librairie J.-B.Baillière Et Fils | 19, rue Hautefeuille, près du Boulevard Saint-Germain | [rule] | 1903 | Tous droits réservés

At head of title: "Les Matériaux De Construction | [rule] | **** |" In the series: "Encyclopédie Technologie Et Commerciale Par E.D'Hubert, I., 4."

8°: [6] f on green paper, bearing adverts, the first f is pastedown endp + 96 p + [2] green paper f as before; 40 fig. Pale red-brown paper like cloth over bds, rounded corners; title in orn frame on cover; spine title; publ logo back cover. 18.5 x 13.5 cm(7 1/4 x 5 1/4 in). Cut. Fr 1.50. JSL.

Cont: adverts; ser tp; ser advert; tp; introd; text; tab cont; adverts.

Up to p 71 the text treats in useful detail the modern manufacture of commercial glass, thereafter treating the diamond, other important gemstones, and glass imitation gemstones with a closing section on the manufacture of silicon carbide which seems not germane. The gemological portion briefly discusses properties of gemstones in general, nomenclature, descriptions of the diamond, its cutting, and celebrated diamonds, followed by remarks on the Moissan synthesis of diamond and the use of colored glasses to imitate gemstones. No new information is imparted.

3063. HU CHAO-CH'UN Ku yü kai shuo... A translation into Chinese of the Japanese text of Hamada, K, *Yuchikusaizō Kogyokufu*, which see, 1936, 82 p. Not seen; from S H Hansford, *Chinese Jade Carving*, 131.

3064. HUDDLESTONE, R V Siberian diamonds. *J Gemm*, 19, 4, 1985, 348-69, 15 fig (many col), 5 tab(1 fold), map. Comprehensive; excellent study with a list of large diamond crystals found.

3065. HUDGEONS, MARC

The | Official | Investors | Guide | [rule] | Buying · Selling | [rule] | Gold | Silver | Diamonds | By | Marc Hudgeons | First Edition | House Of Collectibles, Inc., Orlando, Florida 32809 [1981]

Cementb: [4], 197, [7 advert]p; figs. Black wrap, col title on cover; tab cont back cover; spine title. 20.3 x 13.5 cm(8 x 5 1/4 in). Cut. $6.95 paper. LC 80-85067; ISBN 0-87637-171-3 & 235-3, hardcover.

Cont: tp; publ data; tab cont; pref; text; adverts.

P 114-97 on diamonds with several line drawings of gem cuts. This is much inflated with general remarks on the diamond, its history, famous diamonds, sources, mining, cutting, etc, all of which has nothing to do with "guiding" readers toward making advantageous purchases of cut diamonds, particularly as "investments." There are numerous errors of fact, eg, kimberlite pipes are described as geode-like cavities! As may be expected, other portions of a technical nature are confused, eg, the discussion of crystal forms of diamond. Eventually the text gets around to discussing diamond grading but this too, is complex and contains unneeded detail. No explanation is made of what "Office" sanctioned this "Official" guide.

3066. HUFFER, HELENE Treated gems: why not face the facts? A special *JC-K* report by Helene Huffer, special projects editor. J C-K, May 1983, 33-80, passim; ill(many in col). JSL. Important for its clear explanations of the many ways in which gemstones are treated to enhance their attractiveness and hence their value, ie: bleaching, color diffusion, heat treatment, impregnation, irradiation, staining & dyeing, surface coating, etc. There is a large table of gemstones and the treatments that have been given to them, prevalence of such treatments, stability to light, and identifiability of the treatment. Additionally, aspects of the problem are discussed by a panel of experts and special articles included on treatment methods(C R Cap Beesley) and heat treatment of corundum(Jack Abraham).

HUGH M MOSS LIMITED, see MOSS, HUGH M

HUGHES, GEORGE GRAHAM McKENNY

Brit jewelry historian; joined staff Goldsmith's Hall, London, 1951; apptd Art Director 1961; Hon Chrman Crafts Ctr Gt Brit 1966; Roy Soc Arts Bicentenary Medal 1966.

3067. -----1972

The | Art of | Jewelry | A Survey of Craft | and Creation | Graham Hughes | Studio Vista London | [logo] [title in white on black ground, actually a photo spread over two pages] [1972]

8°: 248 p; ca 145 photos; 78 col photos. Pale tan-yellow cloth, gilt dec & lett on spine; green endp. Te stained pale yellow. Col dj, col photos both covers; resume; vita. 30.5 x 23.5 cm(12 x 9 1/4 in). Cut. £ 8.00. ISBN 0 289 70287 9. JSL.

Cont: 1/2tp; tp; publ data; dedic; ackn; tab cont; col pl list; introd; text; biblio(p 243, 61 entries); photo credits; index.

Lavishly illustrated, authoritative, and notable for many fine illustrations never before published. The text is formed from a series of extended essays on the art of the jeweler in various historical/regional periods. In many respects, this work resembles his previous *Modern Jewellery*, London, 1963, but is greatly increased in scope and because of its inclusion of remarks on gemstones and crown jewels deemed worthy of description here. The first and largest chapter treats stylistic development throughout the ages, with most attention paid to early Mediterranean & European cultures. The second chapter discusses modern design trends and the prominent jeweler-artists currently active. The

next chapter concerns technique and the associated arts of surface decoration and lapidary. The fourth chapter is remarkable for its descriptions of famous finds of jewelry hoards or treasures and is followed by an important chapter on famous collections, largely those brought together by royal houses. The last chapter, on value in jewelry and gems, briefly discusses the impact of esteem and the current attitudes toward same. While no specific sections are devoted to gemstones, except incidental to their use in jewelry, the gemologist will still find this text worthy of perusal.

3068. -----1978

A Pictorial History | Gems & Jewellery [underlined] | Graham Hughes | [Photo] | Phaidon · Oxford [Phaidon Press Limited; 1978]

8°: 120 p; 231 col photos; 3 fig. Black, cloth-type paper over bds, silver spine title; black & col dj, resume, vita. 30.1 x 23 cm(11 7/8 x 9 in). Cut. ISBN 0 7148 1890 9. £ 6.95. JSL.

Cont: 1/2tp(with photo); tp; tab cont & publ data; introd; text; list of museums & exhibits; biblio(p 118, 14 entries); ackn; index.

Pictorially surveys development of jewelry from antiquity to the present. Text in 3 parts: (1) materials & skills, (2) jewels of the past, (3) jewels today. Contents about evenly divided between text & illustrations but the text appears to have been uncomfortably squeezed into spaces between pictures resulting in disjointed reading. Furthermore, while the pictures are superb, the text seems to have been written hastily and perhaps even drastically edited in order to accomodate the physical limitations imposed by the photos. The first part contains most of the material on gemstones: pearls, ivory and glass, p 16-9, gemstones, 20-7, and amulets, seals and engraved gems, on p 34-42. There are small inaccuracies concerning gems and numerous misleading statements which could have all been corrected if the MS had been given to an expert gemologist for review, eg, spinel is called a "fairly common stone of the corundum family," and "colorless" crystals of sphene are known.

3069. HUGHES, JAMES The land of gold and diamonds; or ten years in South Africa. Scranton, Pennsylvania, 1901. Contains only a few words on diamond and the diamond mining industry, also on Rhodes, with the title therefore being misleading and the book unworthy of further description.

3069A. HUGHES, RICHARD W

Butterworths Gem Books | Corundum | Richard W. Hughes | Executive Vice President, Asian Institute of Gemological Sciences, Bangkok, Thailand | Butterworths-Heinemann | London Boston Singapore Sydney Toronto Wellington [1990]

16°: xviii, 314, [1 advert], [1 blank]p; 120 fig(photos, diagrams, maps), 22 tabs + 24 col photos("plates") on 4 tip-in glossy f. Plasticized black paper with col photo, resume, over bds. 23.5 x 16.4 cm(9 1/4 x 6 1/2 in), cut. ISBN 0-7506-1006-9; LC 89-15712. US $29.95.

Cont: 1/2tp; other series bks; tp; publ data; dedic; profile of gem properties; intro; ackn; tab cont; 11 chs; index; advert; [3 blank]p.

Largest and most complete monograph on gem varieties of corundum yet published. As in other books in this series the "profile" is a brief condensation of properties, characteristics, etc of the gem varieties of corundum. The text encompasses chapters on the long and interesting history, chemistry & crystallography(with numerous line drawings of crystal forms), physical & optical properties, inclusions, enhancement treatments, synthetic & assembled stones, lapidary treatment, qualities and famous gems, deposit types, and world sources, the last placing by far greatest emphasis, as it should, on the classic deposits of Burma, Southeast Asia, and Ceylon. There are bibliographies appended to each chapter in lieu of a single, consolidated list. A permanently useful compilation of value to gem dealers, gemologists, and mineralogists. Many early references to the literature were consulted in the then John Sinkankas Gem Library, now in the Gemological Institute of America.

3070. HUGHES, T M'KENNY

Amber | By | Professor T.M'Kenny Hughes, M.A., | F.R.S., F.S.A., F.G.S. | [rule] | Reprinted from the Archaeological Journal, | Vol.LVIII., No. 299, pp.35-46. | [rule] | London: | Harrison And Sons, St.Martin's Lane, | Printers in Ordinary to Her Late Majesty. | [rule] | 1901. [wrap title]

8°: 12 p. Pale brown print wrap. 23.7 x 15.7 cm(9 1/4 x 6 1/4 in). Unopened. General articles, rambling from topic to topic, and not always accurate as when the author states that lizards and fishes are found as inclusions in amber.

HUGUES, P F, see d'HANCARVILLE

3071. HUISH, MARCUS BOURNE(1845-1921) Chinese snuff bottles of stone, porcelain and glass. London: The Chiswick Press, 1895. Priv printed in 149 copies. 51, (1)p; col front; ill; pls. 14 1/2 x 11 1/2 cm. Pls with guard sheets & descriptive letterpress; appendix. Not seen, from LC 17-17592. Hugh Moss, "A beginners guide to Chinese snuff bottles," part 2. *The Antique Dealer and Collectors Guide*, Dec 1970, p 97, "a fascinating little book... now virtually unobtainable... considering its early date, it is an amazing piece of work."

HUISMAN, H, see SPRONSEN, E A VAN

HULL, EDWARD (1829-1917)

Brit geol; b Antrim, Ireland; Trinity Coll, Dublin MA, LLD; apptd Geol Surv Gt Brit 1850; dir Geol Survey Ireland 1869; F.R.S. 1867; explor in Palestine and Arabia. Obit: *Nature*, 100, 1917, 169-70.

3072. -----1872

A Treatise | On The | Building And Ornamental Stones | Of | Great Britain And Foreign Countries, | Arranged According To | Their Geological Distribution And Mineral Character, | With Illustrations | Of Their Application In Ancient And Modern Structures. | By | Edward Hull, M.A., F.R.S. | Director of the Geological Survey of Ireland; | Professor of Geology in the Royal College of Science, Dublin; | Master in Engineering (Hon.Caus.), Dublin University; | Honorary Member of the Edinburgh, Glasgow, Dudley, and Midland Geological Societies; | Fellow of the Geological Society of London. | London: | Macmillan And Co. | 1872 | [All rights reserved]

8°: [2], xix, [1 blank], [1], [1 blank], 333, [1], [3 blank]p; front pl tip-in with actual sepia-tinted photo print pasted on + another at p 55; 2 woodcut fig. Reddish-brown pebbled cloth,

blind frame on covers; gold rules, lett, logo on spine. Dk bluish-gray endp. 21.9 x 14.2 cm(8 5/8 x 5 5/8 in). Uncut. Some copies with tissues to photos. LC 6-16894; JSL; Dewalque 25.

Cont: 1/2tp; pl; tp(pl & title f integral, supplied); pref; tab cont; ill list; dedic; 42 chs; append; index; 3 blank p.

"During the progress of my investigations I made the discovery that there is no work in our language especially devoted to the subject itself," which makes this a first, and a very good one indeed. The first part treats rock classification and rock formations with special reference to British Isles stratigraphy. Succeeding parts take up many classes of rocks, giving for each natural history, properties, occurrences, varieties, etc. Among the granites and porphyries are notes on unusually handsome types useful for larger lapidary works as well as for building ornamentation. Other rocks used from time to time by lapidaries are serpentine, marble, alabaster, and of particular interest to the lapidary & gemologist, are p 169-90 treating blue john fluorite, quartz in crystalline & cryptocrystalline varieties, and malachite. All of this book is interesting and useful reading, especially in regard to locality information. Reprinted at least once that I know of, with the cloth embossed in lozenge pattern and lacking the logo on spine; plain endp; photo pls with tissues.

3073. HUMBOLDT-DACHROEDEN, Freiherr W VON
Die deutsche Diamantpolitik. Jena, 1918. 166 p. Not seen.

HUME, A, see BOURNON, J L, 1815.

3074. HUME, WILLIAM FRASER(1867-1949)

Ministry Of Finance, Egypt. | [rule] | Survey of Egypt. | [rule] | Geology Of Egypt. | By W.F.Hume, | D.Sc., F.R.S.E., A.R.S.M., A.R.C.S., F.G.S., etc. | Technical Counsellor, Geological Survey of Egypt, | President of the Royal Geographical Society of Egypt, | Ex-President of the Institut d'Egypte. | [rule] | Volume II. | [rule] | The Fundamental Pre-Cambrian Rocks | of Egypt and the Sudan; | Their Distribution, Age, and Character. | [rule] | Part I. | [rule] | The Metamorphic Rocks. | With Preface by Dr.H.H. Thomas, M.A., Sc.D., F.R.S., | Geological Survey of Great Britain. | Government Press, Cairo, 1934. | [rule] |... [4 lines, sales info] ... | Price... P.T.300 [title in red & black]

8°: [1], [1 blank], [1], [1 blank], [III]-LXV, [1 blank], 300, 124 p; 96 pls(includes col fold geol map in back cover pocket); other col pls, maps, etc, some fold; 2 fig. Stapled sections! Maroon cloth spine & corners, bright red cloth sides; gold lett & rules spine. Pink & tan patterned endp. 27.2 x 18.2 cm(10 3/4 x 7 1/4 in). Cut. BM(NH); JSL; GS 25-221.

Cont: tp; errata; tab cont; pls & figs lists; pref; ackn; brief review of geol; historical review of growth of geol knowledge; text; appends; addenda; index(separately paged).

This volume of Hume's massive study of the geology of Egypt deals with metamorphic rocks and includes those forming the basement formations at the emerald mines district of the Etbai Desert. Along with descriptions of the geology and mineralogy of the deposits, the text also provides a history of the mines, previous explorations and mining attempts, and other valuable background information. There is a plate with two maps of the emerald mines district, a doublepage color plate showing an emerald matrix specimen from Wadi Nugrus, a photo plate of Wadi Sikait emerald mine, and a folding crossection of Gebel Sikait showing the numerous types of rocks enclosing the emerald-bearing schists.

3075. -----1935, Vol II, Part II

... | Part II. | The Later Plutonic and Minor Intrusive Rocks. | With a special Chapter dealing with | Dynamical Geology | (Cataract Structure and Contact Metamorphism) | and | The Age Of The Pre-Cambrian Rocks in Egypt. | Govt. Press, Bûlâq, Cairo, 1935. |...| Price... P.T.300.

Uniform with above; the only gemologically interesting matter concerns brief descriptions and discussion of the peridot deposits on Zebirged or St John's Island in the Red Sea, p 433-46: modes of occurrence, possible origin, mining methods, and possibility of profitable mining. The information is largely derived from the study by F W Moon,which see. Pl CXXX, in color, depicts a typical terminated peridot crystal in matrix; another pl, from Moon, provides a view of the island from the sea.

3076. -----1937, Vol II, Part III

... | Part III. | [rule] | The Minerals Of Economic Value | Associated with the Intrusive Pre-Cambrian Igneous Rocks | and Ancient Sediments. | and | Methods Suggested For The Dating | Of Historical And Geological Times. | The sections dealing with the Mining of Minerals of Economic Value in Egypt | have been written in collaboration with Mr.R.H.Greaves, M.I.M.M. | Formerly Controller of the Egyptian Department of Mines and Quarries. | Government Press, Cairo, 1937. | [rule] |...[5 lines sales info]...| Price... P.T.250.

8°: XXXV + p 689-990 + 75, [1]p(index); Pls CLIX-CXCVI(actually 43 pls, sepia-tinted photos, fold sketch maps, includ 14 col pls of jewelry, minerals, etc), fold tab. Pls tip-in & bound-in, some doubleleaf. Dk red buckram spine & corners; pale red pebbled cloth sides. 27.4 x 18.7 cm(10 3/4 x 7 1/4 in). Stapled sections, rusting! Cut. JSL.

Cont: tp; tab cont(for entire work); pls list; text; index(to Part III of Vol II), publ note.

The first part of this splendid work, Ch VII, p 689-825, is on the gold of Egypt, and among the remarks on geology, mineralogy, and mining, contains much on the use of gold in ancient Egyptian jewelry with eight colored plates of gold objects, several of which are jewels studded with gemstones and to which reference is made in the text. The use of gold in jewelry, and the employment of gemstones, is carefully detailed on a historical basis and forms an important essay in its own right but has been almost completely overlooked in works which treat Egyptian jewelry. Ch IX, 859-73, describes peridot, beryl, amethyst, rock crystal, chalcedonic quartzes, feldspar, garnet, lapis lazuli, malachite, azurite, and ornamental and economically useful rocks. One of the colored plates, CXCIVa, shows an ancient statue carved from an igneous rock, while Pl CLXXXVII, doubleleaf, p 758, depicts two specimens of emerald in matrix from Wadi Debaa in the emerald district, but the accompanying text for same appears in Part I, p 109-39. In his discussions of gemstones, Hume leans heavily upon the work of Lucas, *Ancient Egyptian Materials*, 1926, which see.

HUMMEL, RICHARD, see LAARSS, R H

3077. HUMPHREYS, CHRISTMAS

The Great | Pearl Robbery | Of 1913 | [orn] | A Record Of Fact | [orn] | By | Christmas Humphreys | M.A., L.LB. (Cantab) of the Inner Temple, | Barrister-at-Law | [logo] | London | William Heinemann Ltd, [1929]

8°: xiii, [2 blank], 299, [1], [2 blank]p; front pl; 10 other pls, all tip-in. Pale red cloth, blind frame & gold lett on cover; gold lett & orn on spine. 21.7 x 14 cm(8 1/2 x 5 1/2 in). JSL.

Cont: 1/2tp; tp; publ data; tab cont; ill list; pref; fwd; 14 chs.

A pearl necklace, valued at £ 150,000, was removed from a mail parcel in Paris and worthless material substituted, after which the parcel was reintroduced in the mails and sent to its London destination; the perpetrators were apprehended and tried. Of interest for the considerable data on the gem and jewelry trades in England and France at the time.

HUMPHREYS, DAVID, see MONTFAUCON, B de, 1721-22

HUNDERMARK, F C, see JAGERSFONTEIN

3078. HUNGER, ROSA

The Magic of | Amber | Rosa Hunger | NAG Fress Ltd | London EClV 7QA [1977]

8°: x, 131, [3 blank]p; 16 col photos on 8 glossy f bound-in; 47 text fig(mainly photos). Dull mustard-yellow cloth-type paper over bds, gold lett spine. Col dj, col photos both covers, resume, vita, adverts. 21 x 14.6 cm(8 1/4 x 5 3/4 in). Cut. £5.95, or USA $11.50(Chilton). ISBN 7198 0061 7.

Cont: 1/2tp; tp; publ data; tab cont; ackn & dedic; col ill list; pref; 13 chs; biblio(p 126, 6 entries); index; 3 blank p. JSL.

A popular work rich in lore & anecdote but poor in scientific information with much of the last containing errors of fact or misleading statements. Topics treated include origin of amber, sources and methods of mining and recovery, working of amber, amber as used in artistic and utilitarian objects throughout the ages, unusual varieties of amber, some data on properties and indentification, and some interesting recollections from the history of Sac Frerès, London, an old firm dealing exclusively in amber, and the place of employment of the author for much of her career. A chapter entitled "The Literature and Mythology of Amber" does not discuss previous treatises on amber as one would expect while the bibliography is meager and virtually useless. On the other hand, the colored photographs are very good quality and appear to be objects in the Sac Frerès stock; in contrast, the black-and-white photographs, mostly of large and important objects, fail to identify the museum or other place in which they are stored or exhibited.

3079. HUNT, HENRY

Lapidary Carving | For | Creative Jewelry | Henry Hunt | The Desert Press | Box K Bouse Arizona 85325 [1980]

Cementb: 144 p; 136 ill(mostly photos) + photo front. White & tan wrap, terra cotta lett on covers & spine. 27.8 x 21.7 cm(10 7/8 x 8 1/2 in). Cut. LC 80-67509; ISBN 0-937764-02-7. $12.95. JSL.

Cont: 1/2tp; front; tp; publ data; pref; tab cont; 20 chs.

How to make carved pendant and ring stones from transparent materials using designs that are all "free form" or modifications of geometric forms and for which unusual reflective effects are claimed. Topics include optical properties of the finished pieces, transparent stones suitable for this kind of treatment, general lapidary processes, making of tools and accessories, specific methods of work, carving characteristics of quartzes, cherry opal, feldspar, peridot, garnet, tourmaline, beryl, topaz, fluorite, and several synthetics as corundum, spinel and YAG. A valuable feature of this book is the descriptions of many ingenious devices and tools designed by the author with instructions for their manufacture, and even involving the making of abrasive wheels and firing them at high temperature. There are no credits to other books on lapidary work and no bibliography. The text is marred in places by use of slang and current colloquialisms. The greatest value of this work is the concrete information on making and using a large variety of small carving tools. Rev *G & G*, 17, 4, 1981, 243.

3080. HURD, PAUL D, Jr, SMITH, RAY F & DURHAM, J WYATT The fossiliferous amber of Chiapas, Mexico. *Ciencia*, 21, 3, 1962, 107-18, Pl I-II. 29.5 x 21 cm(11 3/4 x 8 in). Rediscovery of insect inclusions in Chiapas amber led to visits to several deposits, the principal one near Simojovel. Describes specimens, with check list of arthropoda, also geological notes, lengthy summary in Spanish, bibliography of 21 entries. Both plates in color: an amber necklace, a rough piece, and two polished inclusion pieces.

HURLBUT, CORNELIUS SEARLE, Jr (1906-)

USA mineralogist; b Springfield, MA; AB Antioch Coll 1929; MA Harvard 1932, PhD 1933; faculty Harvard U 1933-, prof mineralogy 1954-; past pres Min Soc Amer; now emeritus Harvard U.

3081. -----1968

Minerals | and | Man | by Cornelius S.Hurlbut, Jr. | Professor of Mineralogy, Harvard University | Random House, New York [1968]

Cementb: 304 p; 152 col photos on 40 glossy f includ in pag; 71 fig. Bright yellow, unfin cloth; gold agate slice on cover, gold lett & logo on spine. Col dj, col photos of agate slices; resume, vita. 28 x 21.5 cm (11 x 8 1/2 in). Cut. In plain card slipcase. LC 68-28329. $15.00. JSL.

Cont: 1/2tp; ack & press note; tp; ackn & publ data; tab cont; pref; 19 chs; append; index.

Interesting, enjoyable work which Hurlbut characterizes as a "non-technical book recounting the stories of minerals that enthralled me as a student." It is, consequently, a potpourri with chapters on history of mineralogy, petrography and rock-forming minerals, pegmatites and the many minerals found in them, including gem species, traprock cavity minerals, minerals of the sedimentary rocks, marine and lacustrine deposits, native metals, ores, fluorescent minerals, iron ores, gemstones and ornamental stones, radioactives, mines & minerals of Cornwall, and asbestos minerals. The appendix is an alphabetical list of the most important species with principal property data. For the gemologist, the most significant material is in Ch 14, "Minerals of the Precious Stones," p 208-24, Ch 15, "Quartz," 227-48, which also contains opal, and Ch 16, "Colored stones and Ornamental Minerals, 249-63. Substantial comments on gem materials as well illustrations of gemstones appear elsewhere, notably in Ch 5, 71-917 on pegmatite minerals. Very good, well-chosen and reproduced photographs. Reprinted twice in 1970 and so indicated on

titlepage verso; second printing in brown, unfin cloth, same dj, but third printing with new, dk blue dj, with new col photo on cover, and additionally bearing the statement "The Random House Illustrated Science Library."

3082. -----1969, London

Minerals |... | [logo] | Thames And Hudson · London [1969]

Brown, unfin cloth, gold logo on front cover & spine; LC omitted; cautionary note p [4]. Rev R Webster, *J Gemm*, 11, 7, 1969, 269-70.

3083. -----1970, Ger edit

Schätze | aus dem Schoss | der Erde | Mineralien · Ursprung und | Bedeutung für den Menschen | von Cornelius S.Hurlbut Jr. | Prof. der Mineralogie an der Harvard-Universität (USA) | Mit einem Vorwort von Dr. Helga Menzel-Tettenborn | Bertelsmann Lexikon-Verlag [Gütersloh, 1970]

Cementb: 303, [1 blank]p; same ill. Yellow, unfin cloth, only gold spine lett. Col dj, similar. P size same. Cont: 1/2tp; tp; ackn & publ data; tab cont; fwd; text; append; index.

3084. -----1976, Fr edit

Les | Minéraux | Et | L'Homme | Cornelius S.Hurlbut, Jr. | Professeur de minéralogie à l'université d'Harvard | Éditions Stock, Paris [1976]

Cementb: 304 p; same ill. Similar cloth of USA edit, same dec, etc. Col dj as before; back cover with tab cont; resume, vita on flaps. 27.9 x 21.6 cm(11 x 8 1/2 in). Cut. Fr 150.00. ISBN 54-1107-9. Cont: 1/2tp; ackn; tp; ackn & publ data; tab cont; pref; text; append; index. Transl by Denise Meunier.

3085. -----1969 Gem zoisite from Tanzania. *Amer Min*, 54, 5/6, 1969, 702-9, 2 fig(one a color pl tip-in), 3 tab. Identifies 40 forms on 12 crystals, of which 17 are new; also gives axial ratios, unit cell, refractive indexes, pleochroism, chem analysis, heat treatment to change color. Color plate shows crystals, cut gems, pleochroism. First adequate description this new gem variety of zoisite.

3086. HURLBUT, CORNELIUS SEARLE, Jr & SWITZER, GEORGE S

Gemology | Cornelius S.Hurlbut, Jr., Ph.D. | Professor Emeritus Of Mineralogy | Harvard University | George S.Switzer, Ph.D. | Curator Emeritus Of Mineralogy | Smithsonian Institution | A Wiley-Interscience Publication | John Wiley & Sons | New York Chichester Brisbane Toronto [1979]

16°: xii, [1], [1 blank], 243, [1 blank], [9], [3 blank]p; 273 ill (photos, line drawings); 49 col photos of rough & cut gemstones on 12 glossy f + preliminary f of explanations, altogether 13 f bound-in between p 112-3 in Ch 12, but not includ in pag; 8 text tabs; property tabs p 222-7, and tabs of rough & cut diamonds p 234-6. Dk blue cloth, gilt title & cut gem on cover; gilt spine; col dj, resume,vitas. 23.4 x 19 cm(9 1/4 x 7 1/2 in). Cut. $21.95. ISBN 0-471-42224-X; LC 78-13262. JSL.

Cont: 1/2tp; tp; publ data; poem; pref; tab cont; 13 chs; determ tabs; append; diamond tabs; index; blank p; gem index; 3 blank p.

A broad-ranging text designed to accomodate a one-semester college course and with mineralogical sections based on Hurlbut's revisions of Dana's *Manual of Mineralogy*. Detailed rev by J Sinkankas, *Amer Min*, 65, 1/2, 1980, 212-3; see also rev *Zs Dt Gemm Ges*, 28, 4, 1979, 207-8; *Gems*, 12, 1, 1980, 41; *R & M*, 55, 1, 1980, 37.

HUSSAK, FRANZ EUGEN(1856-1911)

Austrian geol; b Styria; attend Gymnasium, Graz; stud under Zirkel at U Leipzig; PhD under Doelter at Graz; to Brazil in 1851 where he became its pioneer petrologist. Pogg 4, 677-8.

3087. ----- 1899 Mineralogische Notizen aus Brasilien. Ein Beitrag zur Kenntnis der sogenannten "Favas" der brasilianischen Diamantsande. Die mineralischen Begleiter des bahianischen Diamants. *Tschermaks min u petrogr Mitt*, 18, 1899, 334-59. Not seen.

3088. -----1906 Über die Diamantlager im Westen des Staates Minas Geraes und der angrenzenden Staaten Sao Paulo und Goyaz, Brasilien. *Zs f prakt Geol*, 14, 1906, 318-33, sketch map, Fig 92-95. JSL. Reviews Brazilian diamond occurences which are all alluvial, describing topography, geology, typical deposits, etc, with most attention paid to the Agua Suja deposit in Minas Gerais. Concludes that it will be difficult to find diamond host rock because of severe erosion, weathering, and overlay of sediments atop basement rocks, but notes two types of rock which to him appear to be related to kimberlites. See Gonsalves, p 100, 102.

3089. -----1917 Os satellites do diamante. Rio De Janeiro, 1917, 8°: p 1-56, 2 pls(topo maps). Not seen. GS 17-157.

3090. HUTCHINSON, BILL(d 1981) & HUTCHINSON, JULIE

Rockhounding | & Beachcombing | on Vancouver Island | by | Bill & Julie Hutchinson | Black and white photography by | Bill Hutchinson | And Tom Vaulkhard | Colour photographs by | British Columbia Government | (see details on back cover) | Published by | Tom and Georgie Vaulkhard | The Rockhound Shop | 850 Tolmie Avenue | Victoria, British Columbia, Canada [1971]

Centerstapled: 55 p; 32 photos on 8 bound-in glossy f; sketch map. White wrap, col photos on covers. 22.7 x 15.2 cm(9 x 6 in). Cut. $2.75. JSL.

P [2]: "Parts of this book have appeared in *The Canadian Rockhound Magazine*."

Well-written and well-illustrated guide; materials include rocks with interesting inclusions, quartz varieties, an attractively-patterned lava breccia known as "dallasite," porphyries, and rhodonite. Second rev edit issued in Dec 1971, enlarged by addition of a centerfold of two leaves bearing a doublepage col photo of tumbled gems & two other photos. Third rev printing issued July, 1973.

3091. -----1975, 2nd edit

Rockhounding |...| Published by | Tom and Georgie Vaulkhard | The Rockhound Shop | Victoria, British Columbia, Canada [1975]

Cementb: 75, [1]p; 42 photos + doublep col photo on glossy f; sketch map inside back cover. White wrap, col photos on covers. 22.9 x 15.2 cm (9 x 6 in). Cut. $3.75. JSL.

Most original matter retained but additions appear in the foreword and at end of original text where new sections added on cleaning and looking for marine life and descriptions of a new stretch of beach. A final section deals with the Japanese appreciation of stones that contain attractive inclusions or assume artistic configurations("suiseki"); new map of island inside back cover.

HUTCHINSON, E L, see KENNARD, B E

3092. HUTCHINSON, STEVEN & SHELTON, FERNE

Pioneer | Lucky Stones | Gem And Mineral Lore | And Legends | Compiled by | Steven Hutchinson | [staurolite] | Edited by | Ferne Shelton | [orns] | Hutcraft | High Point, N.C. 27262 [1974]

Centerstapled: 24 p; many text sketches. Pale yellow-brown wrap, title & sketch on cover with latter overlapping back cover. The fwd printed inside front cover; other bks of Shelton inside back cover. 22.8 x 15.1 cm(9 x 6 in). Cut. JSL.

Rambling hodge-podge of poorly related material on geology, mineralogy, crystal structure, descriptions of gemstones, cleaning jewelry and gems, healing stones, symbols and meanings, lore, etc, and with errors in technical areas. Includes several lists of gemstones suitable for certain seasons, occasions, etc, which seem to have been invented for this publication, eg, "special gems for all seasons," and "lucky gems for countries. "

HUTTENLOCHER, H, see JÄGER, E

3093. HUTTON, HELEN

Practical | Gemstone | Craft | Helen Hutton | Studio Vista London [1972]

8°: 103, [1]p; 99 fig(9 in col); outline map Brit Isles. Dk turquoise paper over bds; silver spine lett. Col dj, resume, vita, other publ bks. 24 x 18.7 cm(9 1/2 x 7 3/8 in). Cut. £ 2.60; USA $8.95. ISBN 0 289 70078 7. Also publ in USA by The Viking Press, NY: LC 73-185385; ISBN 670-57061-3. JSL.

Cont: 1/2tp; tp; publ data & ackn; tab cont; fwd; gloss; introd; 8 chs; appends; index.

The text considers two principal topics: mineral raw materials and the lapidary treatment of same, but neither is adequately presented, nor can they be in a book so small in size. Errors of fact are numerous in the first mineralogical part. The second part is better and indicates a firmer grounding in the technical aspects of the craft aided by good choices of illustrative material. The book would have been greatly improved by discarding all of the first part and expanding the remainder, which is, after all, the heart of the matter. Rev *J Gemm*, 13, 5, 1973, 189-90; *G & G*, 14, 2, 1972, 60-1; *Gems*, 4, 4, 1972, 48.

3094. HYDE, CHRISTOPHER S & MATTHEWS, RICHARD A

The Complete Book of Rock | Tumbling | Christopher S.Hyde & Richard A.Matthews Chilton Book Company · Radnor, Pennsylvania [1977; title spread over two p with photo of tumbled gems between title & bottom line; "Chilton's Creative Craft Series".]

Cementb: xiii, [1 blank], 182, [1], [1 blank]p; 114 b&w photos & drawings; 12 col photos on 2 glossy f not counted in pag; 7 tabs. Brown cloth-type paper over bds; pale red spine title; col dj, photos, resume, other publ bks. 26 x 18.1 cm(10 1/4 x 7 1/8 in). Cut. $13.95. Also in paperb, not seen. LC 77-70331; ISBN 0-8019-6236-6(hard cover) & 6237-4(paper).

Cont: 1/2tp; tp; publ data; tab cont; ackn; ill & tabs lists; text tp; 14 chs; append(gloss); index; portr of authors & vitas; blank p.

Comprehensive, useful: brief history of the craft and remarks on its usefulness, obtaining raw materials, preparation for tumbling, types of equipment, operating limitations, principles. systematic tumbling, special hints for special materials, setting stones in jewelry, handmade settings, uses of machines for other purposes and lapidary operations incidental to preparation of stones for jewelry. No bibliography. The authors have been careful in conducting their experiments and tests, and the information is considered reliable.

ICONES DVCVM VENETORVM..., see EBERMEYER, H M v, 1722

3095. IDAR-OBERSTEIN, WERBESTELLE FÜR EDELSTEINE

Das Ist | Idar- | Oberstein | [logo] | 2000 Jahre | Edelsteinkultur

Portfolio: loose, centerstapled pamphlet, [16]p, including covers, 17 ill, 29.5 x 21 cm(11 5/8 x 8 1/4 in). Cut. Front cover title. Six additional pamphlets, numbered I.-VI., text only, of [4], [4], [4], [8], [8], [4] p respectively, describing objects on pls; issued in parts, in envelope with forwarding ltr; also in pale gray thin cardbd portfolio when complete, inward fold flaps; cover flap bears logo. The loose pls are 15 in color & 1 b&w photo pl. No indication of author, editor, date(ca early 1930's?).

This promotional brochure + plates was issued in German, English, Italian, Spanish, and French language versions. A special issue in French is placed within a high-quality card portfolio, covered with tan-yellow wrinkled paper, inner cloth hinge, bearing title in brown & green on cover, with faceted gem in green. The only indication of publisher at foot: "Defontaine - Rouen." No date. The plates are superb, those in color having been painted in watercolors by Walter Wild of Idar-Oberstein in his inimitable realistic style and forming such handsome illustrations that many were extracted from portfolios and framed. Of the 15 color plates, 10 depict cut & rough gemstones, bearing in a lower corner a stylized zodiacal sign appropriate to the stone. The sole b&w plate shows objects as spatulas, mortars, etc made from agate. The colored plates display: diamond, agate, amethyst, citrine, topaz, tourmaline, beryl, corundum, spinel, malachite, moonstone, and some others.

Oswald Morenz of Idar states that 40,000 sets were struck off. During a visit in Fall 1968, I visited the attic of the Gewerbehalle and found a surplus of sheets of letterpress and various plates, but all broken, possibly because of the practise of sending out parts of the whole instead of the full sets. Other titles are: "Idar-Oberstein, A Centre of Gem-Culture Two Thousand Years Old;" "Idar-Oberstein, Deux mille ans de travail des pierres précieuses;" "Questa È Idar-Oberstein, Storia millenaria delle pietre preziose;" "Eso Es Idar-Oberstein, Cultura bimilenaria de piedras preciosas."

IDAR-OBERSTEIN UND SEINE INDUSTRIE, see MUSHAKE, E & L M A,

IDDINGS, J P ,see BISHOP, H R, 1900

IDRIESS, ION LLEWELLYN(1890-1978)

Adventurer, writer: B Sydney New South Wales; attend schools principally in Broken Hill where received exposure to Australian min industry; opened famous "Deadman's Claim" for prec opal at Lightning Ridge; served in WW-I, action at Gallipoli, Sinai, Palestine; extensive travels in Australia; prolific writer, interesting, romantic, but also all his works esteemed for their accuracy. *Who's Who in Austral*, 22nd edit, 1977, 565-6.

3096. -----1943, 8th edit

Prospecting | For Gold | From the Dish to the Hydraulic Plant, and from the | Dolly to the Stamper Battery. With chapters on | prospecting for Opal, Tin, and other Minerals | By | Ion L.Idriess | With A Chapter On | Prospecting for Oil | By Dr W.G.Woolnough | Geological Adviser to the Commonwealth of Australia | Introduction | By F.S.Mance | Under-Secretary for Mines, N.S.W. | Eighth Edition | Angus & Robertson Limited | Sydney And London | 1943

First edition in 1931; rev edit 1931, 2 printings; reprints 1932, -33, -34, -36, -39, -43(8th edit), -44, -46(9th edit), -56, -62, -64, -66, -68, and -78.

16°: [4 blank], x, 288, [2 blank]p; first & last blanks are pastedowns; 24 sketches & drawings. Plain card covers, yellow dj, printed in red-brown, inward-fold flaps. 18.5 x 12.3 cm(7 1/4 x 4 7/8 in). JSL.

Cont: 4 blank p; 1/2tp; other bks of author; tp; publ data; introd; tab cont; 29 chs; gloss; index; 2 blank p.

Enormously popular, written in simple, readily assimilable language, and based on practical experiences of the author. Includes 2 chs on opal mining, p 228-51, explaining how opal occurs, methods of prospecting & mining, qualities, readying for sale, etc. One of the chapters deals with black opal, and the other with white or "light" opal.

3097. -----1946, 9th edit

Prospecting |... With chapters on | Tin, Osmiridium, Platinum, Opals, and Oil. |...| Ninth Edition | Angus And Robertson Ltd | Sydney:: London 1946

Edgestapled: x, 296, [1 blank], [1]p; Price 5s. Slight revisions; opal chapters same.

3098. -----1970, reprint

Prospecting |...| By | Ion L.Idriess | With a Chapter on | Prospecting for Oil | By | Dr W.G.Woolnough | [logo] | Angus And Robertson [Sydney, 1970]

Black, paper-covered bds, gold spine title; col dj with resume & adverts. 18.3 x 12 cm(7 1/4 x 4 3/4 in). Cut. Nat Libr Aus Card No & ISBN 0 207 94333 8. Aus $ 3.95. JSL. Same text & ills.

END OF PROSPECTING FOR GOLD

3099. -----1942, 12th edit

Forty Fathoms | Deep | Pearl Divers And Sea Rovers In | Australian Seas | By | Ion L.Idriess | Twelfth Edition | Angus & Robertson Limited | Sydney And London | 1942

First edit 1937, reprint 1937, -38, -39, -41, -42, -43, -45, -47; new edit 1950, reprint 1952.

8°: x, 343, [2 blank]p; tip-in front photo pl + 24 others on 8 glossy f bound-in; endp maps. Green cloth, lett, frame, rules in black. 18.4 x 12.4 cm(7 1/4 x 4 7/8 in). Cut. JSL.

Tales about pearls and pearling along the north coast of Australia, all written in popular style with much local color and a surprisingly large amount of detailed, useful information on the pearl industry.

3100. -----1952, reprint of 1950 edit

Forty Fathoms Deep |...| Australian Seas | [orn rule] | By | Ion L. Idriess | [logo] | Angus And Robertson | Sydney · London [1952]

8°: x, 278 p; tip-in photo front pl + 28 others on 8 glossy f bound- in; front endp map only. Orange cloth, lett, etc on spine only. 21.5 x 13.7 cm(8 1/2 x 5 3/8 in). Cut. JSL. Text same.

END OF FORTY FATHOMS DEEP

3101. -----1940

Lightning Ridge | The Land Of Black Opals | By | Ion L.Idriess | Angus And Robertson Ltd | Sydney: : London | 1940

8°: viii, [1], [1 blank], 251, [1], [2 blank]p; front glossy photo pl tip-in + 9 photos on 8 glossy f tip-in. Orange-brown cloth, black title & orn on cover in double-rule frame; black lett & rules on spine. Col dj showing windlass on cover; resume, other author bks. 18.2 x 12.4 cm (7 1/4 x 4 7/8 in), Cut. 6/-. NY Publ Libr A 48-2986. JSL.

Cont: 1/2tp; other bks; pl; tp; publ data; author's note; tab cont; ill list; 33 chs; publ data; blank f.

Reprinted twice in 1940, also -42, -44, -47, -48, -50, -53, and -56. Autobiographical account of Idriess' early life in Broken Hill, New South Wales, thence to Sydney, and lastly in the Lightning Ridge district of New South Wales where he mined for precious opal. Most of the text tells his adventures during opal mining, and along the way, divulges much useful information on the opal field in general, the deposits, methods of mining, sale of opal rough, and much on the history and biographies of various characters. It is eminently readable, factually correct, and valuable as an early account of this famous opal-field. The work is deservedly popular and copies are still much in demand. The 1942 reprint is dated on the titlepage; 1944 reprint bound in dk purplish-blue unfin cloth, title in box on cover & lett spine, all in silver. The 1948 reprint, also dated on the titlepage, is bound in pale blue cloth, plain covers, spine title in black. The 1950 reprint has no date on the titlepage; its covers are plain, spine lett in silver, price given as 8s 6d. An American reprint, by Anglobooks, New York, in 1953, is 238 p; not seen.

3102. -----1956 reprint

Lightning Ridge | The Land Of Black Opals | By H Ion L.Idriess | [logo] | Angus And Robertson | Sydney · London · Melbourne · Wellington

8°: vii, [1], 224 p; glossy photo front pl + 17 photos on 7 glossy f, all bound-in. Pale brown cloth, black lett spine. Col dj showing cut gems of opal on front. 21.6 x 14 cm(8 1/2 x 5 1/2 in). Cut. JSL.

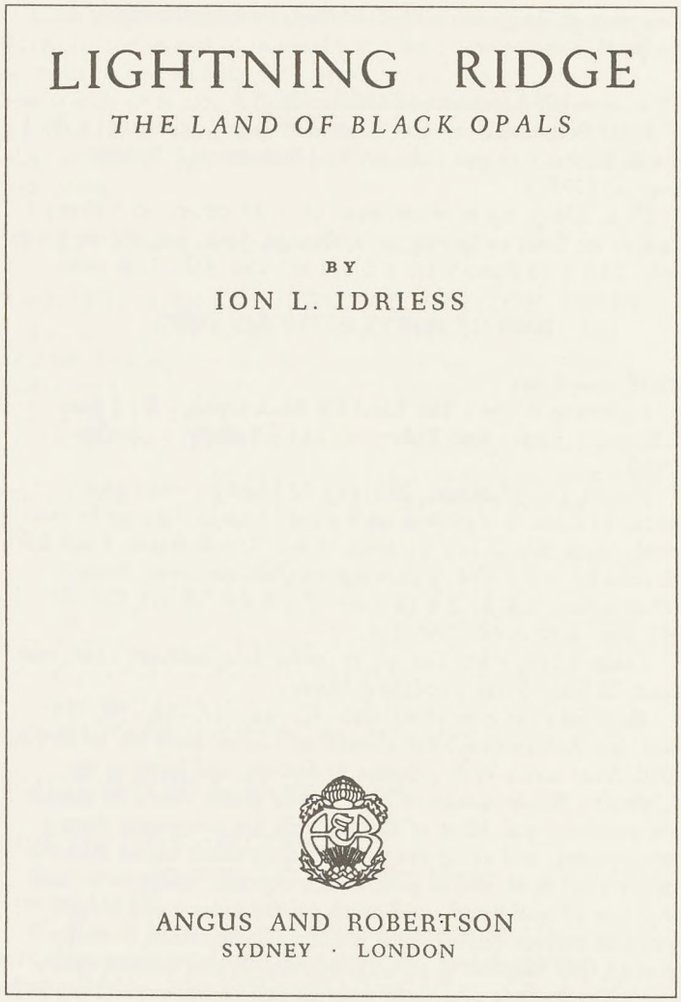
Cont: 1/2tp; other bks of author; front; tp; publ data; note; tab cont; ill list; 33 chs.

This may be the last version; new photos added, all blurred.

END OF LIGHTNING RIDGE

3103. -----1948

Stone Of Destiny | By | Ion L.Idriess | Angus And Robertson | Sydney · London | 1948



3101. One of many reprints of Idriess' very popular account of opals and opal mining at Lightning Ridge, Australia

8°: viii, S44 p; tip-in glossy front pl; map tip-in; 5 small Persian script drawings; 41 ch headpc drawings. Pale brown cloth, lett & rules in brown on spine. Col dj, diamond & mine scene on front; resume, descript of another Idriess bk. 21.5 x 13.7 cm(8 1/2 x 5 3/8 in). Cut. 10s 6d. LC 49-18765. JSL.

Cont: 1/2tp; other author bks; front; tp; publ data; note; tab cont; 41 chs.

In order to tell the story of the diamond, Idriess adopts the device of making the central figures members of the Joris Family, from Antwerp, who are diamond-cutters. The family history, and their diamond-cutting activities, begins before World War II and is taken through the war and afterward. Much useful information is imparted in the tale and it pretty much covers all aspects of the diamond, from mining to marketing of cut gems, and with information on famous diamonds. A very worthwhile book. Rev by p Grodzinski, *The Gemm*, 18, 215, 1949, 161. A reprint issued in 1950, in pale gray cloth with brown lett spine; omits the two pls; 12s 6d. Another reprint in 1953 in pale blue cloth, dk blue spine lett, col dj. Reprinted 1957, minor changes in front matter, bright blue cloth, dk blue lett & rules on spine; v pale tan endp; the glossy f map, formerly at p 22 in the first issue is now tip-in at p 6. JSL.

3104. -----1969, 2nd edit, title change

The Diamond | Stone of Destiny | Ion L.Idriess | with an introduction by Albert Joris | Angus And Robertson [Sydney, 1969]

8°: xii, [1], [1 blank], 325, [1 blank]p; 8 photos on 4 glossy f bound- in; 4 fig; sketch map. Bright blue cloth, gold lett spine. Col dj, resume. 21.5 x 13.7 cm(8 1/2 x 5 3/8 in). Cut. Aus $4.95. Nat Libr Australia Reg No AUS 69-2661; ISBN 207 95168 3. JSL.

Cont: 1/2tp; other bks of author; tp; publ data; note to 2nd edit; note to 1st edit; tab cont; ill list; introd; 41 chs; blank p.

New front matter; the lengthy introd by Albert Joris, son of Old Jules Joris, the central character, p 1-30, describes how the Joris firm got into the industrial diamond and tool-making business, esp during World War II. Joris also knew Dr John Williamson and provides several valuable anecdotes concerning the man and his problems in exploiting the Mwadui pipe in Tanganyika and marketing the stones. Other anecdotes concern visits to South Africa and examinations of large diamond crystals and gems. Rev *Austral Gemm*, 10, 9, 1970, 22; *Gems*, 2,5, 1970, 24-5.

END OF STONE OF DESTINY

3105. -----1967

Ion L.Idriess | Opals | And | Sapphires | How To Work, Mine, Class, Cut, | Polish, And Sell Them | Angus And Robertson [Sydney, Australia, 1967]

8°: vi, [2], 231 p; 8 col photos on 2 bound-in glossy f; 8 b&w photos 4 bound-In glossy f; 5 fig; 4 maps. Brownish-red cloth, gold lett & orn on spine. Dk red-orange endp. Col dj, col photo of opals, resume. 21.5 x 14.1 cm(8 1/2 x 5 1/2 in). Cut. Aus $5.00. JSL.

Cont: 1/2tp; author's bks; tp; publ data; note; tab cont; ill list; text in 2 parts each with title; index; blank p.

In a text which suggests that it is drawn from the author's memory without careful checking, Idriess describes the opals(chs 1-26) and sapphires(chs 27-33) of Australia, first giving some information on similar deposits elsewhere in the world before launching into very detailed advice on where to look for these gemstones in Australia, how to mine them, and what to do with the stones. Advice is given on mining equipment, forging and blacksmithing, sinking shafts, washing gravel, and many other facets of practical mining. All of this material is valuable because it is based on experience but in regard to the origin of opal, Idriess' theorizing seems based on scanty, outmoded scientific knowledge. The illustrations are good and depict opals in color and scenes in the opal and sapphire fields. The locality maps are not detailed. Rev *J Gemm*, 11, 3, 1968, 94; *G & G*, 12, 11, 1968, 353.

3106. ----1970, paper

Ion L.Idriess | Opals | And | Sapphires | How To Work, Mine, Class, | Cut, Polish, And Sell Them | Ion L.Idriess | [logo] | Pacific Books [Sydney(?), 1970]

Cementb: vi, [1], [blank], 231 p; 6 col photos on 2 tip-in glossy f; 5 fig; 4 maps. Magenta wrap, col cut opals on cover;

resume. 18.2 x 11.3 cm(7 1/8 x 4 1/2 in). Cut. Aus $1.25. Nat Libr Aus Card No & ISBN 0 207 12063 3. JSL.

Cont: rev; other author bks; tp; publ data; note; tab cont; text as before; blank p. Rev *Gems*, 3,5, 1971, 43, 45.

ILUPIN, I P, see BOBRIEVICH, A P, et al, 1964

ILYUKHIN, A V, see ODINTSOV, M M, et al

IMHOOF-BLUMER, FRIEDRICH (1838-1920) & KELLER, OTTO(1838-)

Imhoof-Blumer Swiss numismatist/collector; family textile business enabled him to travel extensively in Near East, esp Turkey, where developed strong interest in coins and antiquities; retired 1870 to devote full time to collecting & study; over 40 yrs amassed collection of 21,000 items; received several hon degrees. NDB 10, 156-7.

3107. -----1889

Tier- Und Pflanzenbilder | Auf | Münzen Und Gemmen | Des | Klassischen Altertums | Von | Inhoof-Blumer und Otto Keller. | [rule] | XXVI Phototypische Tafeln Mit 1352 Abbildungen. | [logo] | Leipzig, | Druck Und Verlag Von B.G.Teubner. | 1889.

4°: IX, [1], 168 p; 26 photo pls in dk sepia tint. Tan paper over bds; title on pale pink paper label on front cover; brown cloth spine. 13.3 x 23.5 cm(12 1/4 x 9 1/4 in). Cut. USGS Kunz Coll, LC 10-7700.

Cont: tp; dedic; fwd; ill index; descriptions of pls; indexes; pls.

Animal & plant representations on ancient coins and engraved gems: each pl with as many as 40-50 objects; skillful, sharp photography. Gives brief descriptions along with name of museum or collection in which object found.

IMPERATO, FERRANTE(ca 1550- ca 1625 or 1631)

Naples pharmacist where he founded a botanical garden; extensive correspondence with famous European savants, eg, Aldrovandi, Bauhin, Clusius, Mattioli; transl a number of works into Ital; large private collection nat hist objects housed in a museum(interior shown in the work below).

3108. -----1599 Dell' historia naturale... In Napoli, nella Stamperia à Porta Reale, per Costantino Vitale, 1599. 2°: [24], 791 p; fold woodcut of mus; text woodcuts; woodcut printer's mk on title. Not seen. Thorndike, citing several authorities, *Hist Magic*, 7, 249, suggests that "the true author of the work was Nicolaus Antonius Stelliola [or Stigliola], to whom Imperato paid 100 scutari for the privilege of putting his name on the title page." Excellent, detailed description of this work by Ruth Mortimer, *Harvard-Italian* 240; Brunet III, 431; Pritzel, 4433; DeGolyer Coll, U Okla. Agassiz III, 304.

3109. ----- 1672, 2nd edit

Historia | Natvrale | Di Ferrante Imperato | Napolitano. | Nella Qvale Ordinatamente | Si Tratta | Della diuersa condition di Minere, Pietre pretiose, & | altre curiosità. Con varie Historie di Piante, | & Animali, sin' hora non date in luce. | In questa Seconda Impressione aggiuntoui da Gio: Maria Ferro | Spetiale all Sanità, alcune Annotationi alle | Piante nel Libro vigesimo ottauo. | [rule] | Dedicata All' Altezza Ser.^{ma} | Di Giovan Federico | Dvca Di Brvnsvvick, Et Lvnenbvrg. | [engrav vignette] | Venetia. | [rule] | Presso Combi, & La Noù. M.DC.LXXII. | Con licenza de' Superiori, e Privilegio. [Venice, 1672; title in red & black]

4°: [8], 696, [8] p; †^{4}, A-Mmm^6, a^4. Fold engrav pl of museum bound-in ahead of text; 3 woodcut diagrs; 130 text woodcuts; many ch orns & inits. 31.7 x 21.8 cm(12 1/2 x 8 1/2 in). Cut. USGS Kunz Coll, GS 34-544; Ward & Carozzi 1172; JSL; DeGolyer Coll, U Okla; BM(NH) II, 902; Pritzel 4433.

Cont: tp; dedic; author pref; publ pref & approb; pl; text; index; errata.

Enlarged; brief notes added by editor Giovanni Maria Ferro. The unsigned engraved fold plate of the museum interior is reproduced in Hofer, *Baroque Book Illustration*, no 76. The considerable text devoted to minerals, earths, and gemstones, makes this work of great interest to the earth scientist while the gemologist will find much valuable information also, eg, amber, 342-59, citing Goebel as an authority, origin of gemstones and other substances 508-45 with extended references to Theophrastus, Pliny, Garcias ab Horto, and also citing Cellini's comments on gems and the uses of foils and tints to improve reflectivity and color. Further, gemstones are treated exclusively on p 546-57, while 558-88 describe figured stones, fossils, and various others to which magical or curative powers have been attributed. Stones of monuments and statues are treated on p 589-605, and it is here that an illustration of asbestos appears that is very similar to that in De Boodt's *Gemmarum et Lapidum Historia*, 1636. Many other quaint woodcuts grace the text, among them quartz crystals and aggregates of same, twin crystals, fossils, geodes, etc.

3110. -----1695, Leipzig. Not seen. Agassiz III, 304; Böhmer,I, 236.

3111. -----1695, first Latin edit

Ferrandi Imperati | Neapolitani | Historiae | Naturalis | Libri XXXIIX. | Accesserunt nonullae | Johannis Mariae Ferro | Adnotationes | Ad | Librum Vigesimum Octavum. | Nunc primum ex Italica in lingvam con- | versa Latinam. | Cum Indice Locupletissimo. | [rule] | Coloniae, | Sumptibus Philippi Gothofredi Saurmanni, | Bibliopol. Bremensis. | [rule] | Anno M DC XCV. [Cologne, 1695; title in red & black]

4°: [8], 928, [24] p;)o(4, A-Dddddd^4; 130 text woodcuts, ch orns, inits. 19.9 x 16.5 cm(7 3/4 x 6 1/2 in). Cut. USGS Kunz Coll, GS 34-544; JSL; DeGolyer Coll, U Okla.

The woodcuts were engraved anew for this edition; nearly the same size but the lines are thicker and more heavily impressed. First Latin edit and the only edition produced in Germany; it is considerably rarer than either of the Italian editions.

3112. -----1628 Discorsi intorno a diverse cose naturali. Napoli, 1628. Not seen. Thorndike, *Hist of Magic*, ibid, mentions a work on mineralogy published by Imperato in 1610 in Naples in which a classification of earth materials is set forth and occult virtues of gems affirmed, Imperato noting that though "small in size, they produce wonderful effects," and mentioning here in his "Discorsi" the magical powers in the section on gemstones. Agassiz III, 304.

IMPERATORVM A IVLIO CAESARE..., see EBERMEYER, J M v, 1722

3113. IMPERIAL INSTITUTE

Imperial Institute | The Mineral Industry Of The | British Empire And Foreign | Countries | Gemstones | Crown Copy-



3109. Interior of Imperato's museum of natural history objects

right Reserved | [royal badge] | London | Printed And Published By His Majesty's Stationery Office |---[5 lines]...| 1933 | Price 2s. 6d. net | 61-154

8°: [5], [1 blank], 137, [1 blank]p; tabs. Pale blue-gray print wrap, cover title, advert. 24.4 x 15.6 cm(9 5/8 x 6 1/8 in). Cut. JSL.

Cont: functions of institute; tp; tab cont; text; blank p.

Analyzes position all countries in respect to production and sale of gemstones; preliminary remarks on the nature and uses of gemstones, brief descriptions, modes of occurrence, cutting, artificial & synthetic stones, marketing & pricing, followed by tables of production, including a large one on diamonds. The specifics of each country are then examined, beginning with the British Empire. References to technical literature on p 120-37, by country, and forming an important bibliography. A second edition, not so identified in the title, appeared in 1934; it contains some additions to statistical tables.

3114. INDIA. GEOLOGICAL SURVEY Diamond of Bundelkhand, Panna. *Rec Geol Survey India*, 33, 1906, 273-314. Not seen; from Gill, p 50.

INDIAN ACADEMY OF SCIENCES, PROCEEDINGS, Symp on diamond, see RAMAN, C V

3115. INDUSTRIAL DIAMOND ASSOCIATION OF AMERICA

The | Industrial | Diamond | [logo, left margin] | A Symposium of technical papers published under the | sponsorship of Industrial Diamond Association of America | Industrial Diamond Association of America, Inc. | 25 West 43rd Street, New York, N.Y. 10036 | Telephone: 212. 563-1315 | Margaret J McGinnis, Executive Manager | © Industrial Diamond Association of America, Inc. 1964

Plastic tube hinge: 72 p, many ill; stiff, glossy paper covers, title, logo in black & blue, blue panels, on cover. 28 x 21.8 cm(11 x 8 1/2 in). Cut. JSL.

Text in 2 parts: (1) four articles on diamond in industry, natural stones, manufactured diamond, crystal forms, nomenclature, diamond research, (2) ten articles on many applications of industrial diamond in wheels, tools, saw blades, classified powder, compounds, reclamation, dies & bits.

3116. -----1979, 2nd edit

The | Industrial | Diamond | 2nd Edition | [rule] |...| Industrial Diamond Association of America Inc | 59 East Main Street | Moorestown, N.J. 08057 | Telephone (609) 234-0330 | [rule] |...[3 lines cover caption] ...| 1979 © All rights reserved Industrial Diamond Association of America Inc. | I [title part in gray ink; in gray rule border]

Cementb: v, 106 p + "addendum" (errata) sheet; several dozen ill, some in col. Blue glossy wrap, col photo diamond crystals on cover with title in white. 28 x 21.8 cm(11 x 8 1/2 in). Cut. JSL.

Articles treat natural diamond sources, type crystals & terminology, synthetic diamonds, applications, and tools & equipment. Excellent color photos of natural crystals.

3117. -----1968

[logo] | Proceedings: | The Industrial | Diamond | Revolution | A Technical | Conference | Columbus, Ohio, U.S.A. | November, 13, 14, 15, | · 1967 | Advanced Technology Committee | Industrial Diamond Association Of America, Inc. [1968; title in gray & black]

8°: xv, [1 blank], 274, [1], [1 blank], XI, [1 blank]p; many ill. Dk blue cloth, logo & title in silver on cover & spine. 27.9 x 21.5 cm(11 x 8 1/2 in). Cut. $15.00. LC 68-54549. JSL.

Except for Dr H B Dyer's article, p I-X in the appendix on "Physical and mechanical properties of diamond," little of the text is of interest.

3118. -----1970

[logo] | Proceedings: | [dot] | International | Industrial | Diamond | Conference | [dot] | Chicago, Illinois, U.S.A. | [dot] | Co-Sponsored By | Industrial Diamond Association Of America, Inc. | Society Of Manufacturing Engineers [1970; title in gray & black]

8°: [4], 283, [1 blank]p; many ill. Dk brownish-red cloth, mottled in black, creased texture; silver title on cover & spine. 27.9 x 21.5 cm (11 x 8 1/2 in). Cut. LC 68-54549 [sic]. JSL.

The first article, p 1-9, by Jan Taeyaerts, "The physical and chemical properties of diamond," is useful to the gemologist. Another article, "Diamond tool-tips in ultrasonic impact machining," by J Grandia and J C Marinace, may be interesting to lapidaries who use such machines for engraving gems.

3119. -----1980.

[logo] | Proceedings: | "Diamonds in the 80s" | A Technical | Symposium | Chicago, Illinois, U.S.A. | October 13-15 | [dot] 1980 | Editor: George S.Switzer, Ph.D. | Curator Emeritus of Mineralogy, Smithsonian Institution [Publ by IDA, Moorestown, NJ, 1980; title part enclosed by ruled frame]

Edgestapled: vii, [1 blank], 202 p; many ill. Pale tan wrap, cover title. 27.8 x 21.5 cm(11 x 8 3/8 in). Cut. LC 80-83617. JSL.

Contains 29 articles, among them, on synthesis, recovery of diamond wastes, many tool & abrasive applications, etc.

3120. INDUSTRIAL DIAMOND INFORMATION BUREAU

multi-lingual glossary | of industrial diamond terms | English · German · French · Dutch · Italian · Spanish · Swedish · Japanese | [logo] | Industrial Diamond Information Bureau | Arundel House 36-43 Kirby Street London ECl [nd, ca 1966; title blue & black]

8°: [179]p. Plasticized black paper wrap, color panel on cover with white lett. Oblong format. 14 x 21 cm(5 1/2 x 8 1/4 in). Cut. 20s. JSL.

Cont: 1/2tp; tp; introd; gloss; indexes; print data.

Very complete, unique compilation, containing "words which... occur most frequently in patents and other technical literature, or they are so specialized that standard dictionaries are sometimes inadequate;" also contains many technical terms of gemology, mineralogy, economic geology, lapidary work, etc. Instead of page nos, term nos are used, increasing by 14 terms/page for a total of 912. Indexes give terms in other than English with numbers enabling location in the glossary and discovery of synonyms.

INDUSTRIAL MINERALS AND ROCKS, see BALL, SYDNEY H, 1937 & 1949, JAHNS, R H 1960.

3121. l'INDUSTRIE DIAMANTAIRE

L'Industrie Diamantaire | En Belgique Et A L'Etranger | Extrait Du Bulletin De La | Société Belge De Banque | (Octobre et décembre 1932, janvier 1933) [Bruxelles; wrap cover title, enclosed in triple-rule frame]

Centerstapled: 27, [1]p, wraps included in pag. 25.7 x 20.2 cm(10 1/8 x 8 in). Fold map. Cut. JSL.

History of the diamond mining industry from antiquity to the present, including production figures. Topics: commerce, industry in Belgium, fold map showing towns & cities in which some part of the industry is carried on; fundamental problems of today's industry; prices of cut diamonds.

IN- EN UITVOER, see AMSTERDAM DIAMOND INDUSTRY

3122. INIGUEZ, DIEGO ANGULO Museo del Prado. Catalogo de las Alhajas del Delfin. Madrid 1944. 142 p, 25 pls. Paper wrap. 21 x 14 cm. "Interesting catalogue of rock crystals in the Prado," not seen, from Thomas Heneage, London, Cat 8, 1984, no 1600.

INQUIETO, see ARDENTE ETEREO

3123. INSLEY, HERBERT: McMURDIE, H F; PARSONS, W H & STEIERMAN, B L Some properties of materials used for jewel instrument bearings. *Amer Min*, 32, 1/2, 1947, 1-15, 15 fig. Natural & synthetic corundum, spinel, and a glass.

INSLEY, H & STEIERMAN, W H, see KRAUS, E H, et al, 1946

3124. INTERNATIONAL CONFERENCE ON KIMBERLITES Extended abstracts of papers. Edit committee: Prof L H Ahrens, Dr A R Duncan, Dr A J Erlank. U Cape Town, Rondebusch, Cape, South Africa, 16th Sept - 8th Oct 1973. Cementb: [1], [1 blank], 332 p; many ill, diagrs, cross-sects. White & blue print wrap. 29.5 x 20.5 cm(11 5/8 x 8 in). Cut. JSL. Several dozen articles: kimberlites, related rocks, characters, mineralogy, sources, emplacement, and with considerable information on diamonds.

3125. -----1977 Extended abstracts contributed to The Second International Kimberlite Conference, Bishop's Lodge, Santa Fe, Mew Mexico, Oct 3-7, 1977. Edit & program committee: F R Boyd & H O A Meyer. Cementb: unpaged, ca 280 p, may diagrs, etc. Lightweight print wrap, cover title. 28 x 21 cm (11 x 8 1/4 in). Cut. JSL. Articles similar to above.

3126. INTERNATIONAL DIAMOND ANNUAL

Volume 1, 1971 | International | Diamond | Annual | A review of the world's diamond industry and trade | World copyright©| [orn] | [logo]

Editor: A N Wilson; publisher: Diamond Annual(PTY)LTD, 171 Main Street, Johannesburg, Republic of South Africa, 1971.

8°: 279, [1 blank]p; many color & other ill, includes maps. Dk blue plasticized paper over bds; v pale gray endp; first flyleaf bears lett. Col dj, resume, vita. 28.5 x 23.6 cm(11 1/4 x 9 1/4 in). Cut. $20.00. JSL.

Cont: 1/2tp on flyleaf; tp; publ data; tab cont; fwd; introd; text interspersed with adverts; bk reviews & notes(p 263, 2 items); more text; index of persons; currency exchange rates; ackn; advert; blank p.

A blunder by the publisher stops the table of contents at p 213 but many other articles appear thereafter. A wide-ranging review, covers all major aspects or the industry and trade, includes production statistics, biography of Sir Philip Oppenheimer, history of Kimberley, collection of Queen Elizabeth II, much on deposits, cutting diamonds, fashion, synthesis of diamond, etc. Richly illustrated; it is sure to become a valued reference. Rev *G & G*, 13, 11, 1971, 363-4.

3127. -----1972, Vol 2

International | Diamonds | number | two | A review of the world's diamond industry and trade | World Copyright © | Published December 1972 | [logo]

Edit A N Wilson; publishers: Diamond Annual (Pty) Ltd., 701 CNA Building, Commissioner Street, Johannesburg, Republic of South Africa, 1972.

8°: 288 p; many col & other ill. Blue cloth, silver title on cover & spine. Col dj, resume. 28.6 x 23.2 cm(11 1/4 x 9 1/8 in). $20.00. JSL.

Cont: tp; publ data & tab cont; text, interspersed with adverts.

Several dozen articles on many topics: industry, trade, production, prospecting, cutting, marketing, industrial diamonds, etc. Rev *G & G*, 14, 5, 1973, 151. Equally valuable.

3128. INTERNATIONAL GEMOLOGICAL SYMPOSIUM

International | Gemological | Symposium | Proceedings | 1982 | Dianne M.Eash | Editor | Gemological Institute of America | Santa Monica New York [1982; pale gray vertical bar alongside title]

16°: XXXVI (first f blank), [2 blank], 568, [1], [1 blank]p; ca 100 col & other ill; 42 photo portraits; 23 tab. Dk blue cloth, gilt title on cover & spine. 27.8 x 21.6 cm(11 x 8 1/2 in). Cut. ISBN 0-87311-011-0. $39.95. JSL.

Cont: blank f; 1/2tp; tp; publ data; dedic; introd; doublep portrait mosaic; ackn; note; tab cont(also in Fr, Ger, Jap, but without pag); art by G L S Rothschild; blank f; text; index; index to authors; index to papers; the GIA mission; logo; blank p.

Contains 62 presentations on diamonds, colored stone properties, synthetics and simulants, fresh and salt water pearls, diamond properties, marketing, general gemological topics, gemstone deposits, inclusions, and others, of which 47 presentations were accompanied by formal papers here reproduced in their entirety. Authorities were drawn from the ranks of professional gemologists, jewelers, dealers, and professional mineralogists.

3129. INTERNATIONAL OPAL JOURNAL, THE Vol 1, no 1, 1977, published by Impart Publishers, 175 West Moana Lane, P.O.Box 6567, Reno, Nevada 89513. Centerstapled: 76sp, many col & other ill. 27.8 x 21.3 cm(11 x 8 3/8 in). $2.95. JSL. Contains 18 articles: buying opals, preservation, lore, deposits & mining in Australia, Brazil, Nevada, etc; cause of play of color, photography, lapidary treatment, etc. Includes a buyers' guide. No other issues.

3130. INTERNATIONAL TURQUOISE ANNUAL, THE Official publication of the International Turquoise Association,Reno, Nevada: Impart Corporation, Editor and publisher R.C.Barnes. Vol 1, thru March 1976, centerstapled: 79 p, ill. 27.8 x 21.3 cm(11 x 8 3/8 in). Cut. $2.95. JSL. Vol 2, thru March 1977, 112 p, ill. Same size & price. All published. Both issues contain many articles on trade in turquoise, turquoise as an investment, value of turquoise jewelry, deposits, mineralogy, substitutes, jewelry making, variscite, legislation governing Indian jewelry, prospecting, glossry, Indian makers, turquoise collections, advice to buyers, etc.

3131. IP YEE; CHENG TE-K'UN & McELNEY, B S

[*] | Chinese Jade Carving | [**] | Catalogue by Ip Yee | [**] | Jointly presented by the Urban Council, Hong Kong | and the Min Chiu Society | Organised by the Hong Kong Museum of Art | 21.10.83 - 24.12.83 [titlep & facing p tinted purplish-brown]

[*] or [**] represent one or two lines of chinese characters.

8°: [2 blank], [302], [2], [2 blank]p; the first and last f are paste-downs; 303 col photos; 6 line drawings. Dull gray-green cloth-type paper over bds; gilt cover & spine titles. Black dj, col title & photos. 28.3 x 21.5 cm(11 1/8 x 8 1/2 in). Cut. HK $107. ISBN 962-215-054-3; UC 10358.

Cont: blank f; 1/2tp; photo; tps; publ data; committees; tab cont; messages; prefs; contributors; introd; notes & biblio(p 21, 25 entries in Engl); two essays; chronologies; cat tp; cat & pls; print data; blank f.

Contents in Chinese & English. Includes two essays: "Chinese Jade: A General Survey," p [29-33] by Cheng Te-K'un and "In search of song jades," [34-8],by B S McElney. A handsome, well-produced catalog, describing 291 examples of generally small but very fine carved jades ranging in age from Neolithic to Modern, with notes on material, size, shape, significance, etc, contributed by members of the Min Chiu Society, Hong Kong. Most are shown in good quality color photographs. Other essays: how exhibit arranged, method of specimen selection, jade materials and dating problem, terminology, the Song jades.

3132. IRAN. BANK MARKAZI

The | Crown Jewels of Iran | Guide-Book | [rule] | published | by | Issue Department | Of | Bank Markazi Iran | (The Central Bank Of Iran) | Teheran | 1964

Centerstapled: [1], [1 blank], 45, [1]p; 13 col photos. Wrap, col photo on cover; title in black. 19.7 x 13.1 cm(7 3/4 x 5 1/8 in). Cut. JSL.

Brief history of how treasure came into existence; contents of cases and some individual pieces; major items described with color photos of crowns, the Daria-i-Nur diamond, the Globe of Jewels, Nadir Throne, and various containers, table ornaments, etc. The photos are blurred and it is likely that previous issues exist, and quite possibly in other languages.

3133. -----1976?

The Crown Jewels of Iran | [logo] | published | by | Bank Markazi Iran | (The Central Bank Of Iran) | Tehran [nd, ca 1976]

Centerstapled: [1], [1 blank], 52, [1], [1 blank]p; 17 col photos. Wrap, col photo on front; gold title. 19.6 x 13 cm(7 3/4 x 5 1/8 in). JSL. Similar, with more color photos of generally better quality and re-taken of the same objects; that of Daria-i-Nur is excellent.

3134. IRMAN O mestorozhdenii tsvetnykh kamnei v Mursinskoi slobode. *Gornyi Zhurnal*, ch 1, 1836, 222-333. Not seen: occurrences of colored stones at Mursinka village in the Urals.

3135. ISAACS, THELMA

Gemstones, | Crystals And Healing | Thelma Isaacs, PhD | [orn] | Lorien House | P.O.Box 1112 | Black Mountain, North Carolina 28711 [1982; title in orn frame]

Cementb: [8], ii, 146 p; two f of plain blue paper inserted before and after text; 7 fig; 7 tab. Col wrap, crystal drawings, pale green cover & spine titles; resume, publ data, col logo back cover. 21.3 x 13.8 cm (8 3/8 x 5 1/2 in). Cut. ISBN 0-934852-52-9. $8.00. JSL.

Cont: [2] blank f + tp; publ data; dedic; disclaimer; biogr of author; tab cont; introd; text; appends; biblio(p 140-2, 29 entries); mineral index + [2] blank f.

Taking advantage of a current fad on use of in healing and protection, the author attempts to explain how the therapeutic properties ascribed to certain minerals and gemstones arise. All minerals and crystals are said to possess inherent "vibrations" which influence the body and mind of those who wear them or ingest them as medicines. However, the disclaimer warns readers that no responsibility is assumed if the minerals mentioned are ingested without a doctor's prescription. Much is also made of the Hindu "seven rays" which are said to pervade the universe and influence all animate creation. Contents include brief and generally useless commentaries on the three major rock classes and crystallography, with the major text describing and prescribing thirty stones from amber to zoisite. This is followed by tables of zodiacal stones, birthstones, stones in Aaron's Breastplate, and a table of 30 stones arranged according to crystal class, atomic structure, and mineral(chemical) class. Azurite and malachite are listed erroneously as "sulphates." A lengthy chapter, based on Cayce's readings, describes Atlantis in science-fiction detail. A final chapter on crystals suggests that synthetics will be increasingly used to replace natural crystals. The atomic table and glossary are obvious and unhelpful space-fillers.

ISIDORE OF SEVILLE, Bishop, Saint(ca 565-636)

Encyclopedist; b Cartagena or Seville in an important family; two brothers were also bishops; his bishopric in Seville may have lasted from 619 to 633(see Brehaut below) but George Sarton, *Introduction to the History of Science*, I, 471, suggests it began ca 600 and lasted "to his death" in 636; his main work (treated herein) was *Etymologarium sive originum libri* XX, "written probably between 622 and 633; an encyclopaedia based upon classical authors...[which] served as a model for later encyclopaedias and its influence upon mediaeval thought was very great "

3136. -----1472, 1st edit Etymologiae... Augsburg, Zamer. Not seen. Other editions: 1473, Strasbourg(Sarton, p 471); 1483, Venice(136 f, BMC V, p 379); 1499, Paris; 1509, Paris(2°:CIII, misnumb for CI, [2] f); 1580, Paris; 1597, Madrid by Juan de Grial, also in 1599; 1601, Paris by Fratrum Jacob du Breul; 1617, Cologne; 1778, Madrid by Bartholomaeus Ulloa, 2 vol, in which bk 16, p 397-427 on gemstones; 1796, Rome by F Arevalus(collected works in 7 vols), reprinted in Migne, *Patrologiae Latina*, 82, p 73-728; 1801, Rome, reprint of previous edit.

3137. -----1911, Oxford Isidori Hispalensis Episcopi etymologarivm sive originvm libri XX. Recognovit breviqve adnotatione critica instrvxit W M Lindsay. Tomvs 1[-2]. Oxonii: E Typographeo Clarendoniano, 1911. Not seen. Facsimile reprint by Oxford University Press, 1957, 1962. 8°: xvi(Lindsay's introd) + libros I-X; [6]p + XI-XX; in Latin, unpaged. The work on stones and metals forms Liber XVI in Vol II, "De lapidibus et metallis," [44]p.

3138. -----1912, extracted by Brehaut, Ernest An Encyclopedist of the Dark Ages: Isidore of Seville. New York: Burt Franklin reprint, nd, of Columbia U Studies in History, etc, vol 48, 1912, 274 p. Part II treats the *Etymologies*, in 20 books, of which Book XVI, p 252-7, is devoted to stones and metals, the analysis by Brehaut choosing what he considers to be significant excerpts, including material on gemstones.

In general, the material on gemstones and minerals appears to paraphrase Pliny, even in similar terse style, stating what was then known on properties, appearances, sources, and curious lore. As pointed out by Brehaut, who studied Isidore's life and accomplishments, Isidore was content to gather his material from books and incorporated virtually no firsthand information of any kind, even that which was available to him in contemporary writings. A substantial and useful commentary on the first edition is provided by Eugenio Maffei & Ramon Rua Figueroa in their *Apuntes Para una Biblioteca Española*, I, 1871, p 369. C W King, notes in his *Natural History of Precious Stones and of the Precious Metals*, 1867, p 12, that the work has "a certain value as containing quotations from many authors now lost," but also noting that "little... is to be gathered from his extracts bearing upon our subject; since he has evidently... contented himself with abridging Pliny's articles... from Solinus, likewise, he has transcribed some passages verbatim." Extended comments also appear in Thorndike, *History of Magic*, I, p 623-33, who notes that the work undoubtedly greatly influenced thought in the Middle Ages, "but one should not be led, as some writers have been, into exaggerated praise of Isidore's erudition on this account." He also notes Isidore's repetitions of the marvelous virtues ascribed to gems after Pliny and Solinus.

The material on geological matters, including gemstones, is apportioned among headings as follows: Kinds of Earths, Materials Derived From or Including Water, Common Stones, Less Common Stones, Gemstones in General, then the latter subdivided according to the following colors: green, red, purple & blue, white, black, and varicolored gemstones, also Crystal,

"Fiery or Glowing Gemstones, and then "Yellow or "Gold" Gemstones. The gemstones chapters are followed by a chapter on glasses in which there is a brief note of obsidian, and chapters on the metals.

3139. ISMALUN, MAX Émeraudes et béryls, *Bull Soc Roy Géographie d'Egypte*, Cairo, 21, 1943, 51-60; also issued in wrap separate. The author, a mining engineer in Egypt, was involved in an attempt to reopen the Egyptian emerald mines in 1927; he writes on emerald in general, previous explorations of the mines, his examination of pertinent literature, and his conclusions that it would not pay to rework the mines.

3140. ISRAEL. MINISTRY OF COMMERCE AND INDUSTRY, DEPT OF DIAMONDS Israel diamonds; jewelry and tools. Tel Aviv 1963. 32 p, ill. Not seen.

ISSEL, A, see GIGLIOLI, E H

3141. ISTITUTO GEOGRAFICO AGOSTINI

Enciclopedia Italian delle Scienze | Scienze Naturali | Minerali E Rocce | I[-II] | Istituto Geografico De Agostini - Novara [1968]

8°: I: [8], 352 p; II: [2 blank], [5], [1 blank] p + p 353-727 + [1 blank] p; many 100's ill, mainly col photos, col diagrs. Brown, plasticized leather-type paper over bds; gold-rule panels on spine, title in gold on col panels; pale yellow endp, dec. 29.3 x 22.7 cm(11 5/8 x 8 7/8 in). Cut. In matching, col-panel slipcase.

The first volume is a treatise on mineralogy with systematic descriptions of minerals; there is a special illustrated section, p 306-28, on precious stones, and another on radioactive minerals. The second volume treats petrography and descriptions, etc, of rocks, formations, meteorites, and combustibles, including petroleum. Handsome, lavish publication.

IURKEVICH, R K, see BOBRIEVICH, A P, et al 1959

IVACHEV, P A, see GULYAEV, N S

IVANKIN, P F, see ORLOV, Yu L

3142. IVANOV, L L [On the mineralogy of topaz deposits in Volhynia, Ukraine.] *Izvestiya Akademiya Nauk SSSR*, 3, 1933, 421-44; in Russ. Not seen.

3143. -----1936 K mineralogii topazovykh mestorozhdenii Volynie. *Trudy Lomonovskogo Instituta, Geokhimii, Kristallografii i Mineralogii*, Moskva-Leningrad, 7, 1936, 79-98. In russ; not seen. Describes topaz crystals, pale yellow or rarely pale blue, from granitic pegmatite cavities, with associated minerals; quartz crystals found to 99 kg.

3144. -----1940 Kvartsy Pamira. Moscow & Leningrad, 1940, 76 p. Quartzes of the Pamir Mountains; not seen.

3145. IVANOV, VLADIMIR GEORGIEVICH & SAPOZHNIKOV, ANATOLIY NIKOLAEVICH

Akademiya Nauk SSSR | Sibirskoe Otdelenie | Institut Geokhimii Im. Akademika A.P.Vinogradova | V.G.Ivanov A.N.Sapozhnikov | Lazurity | SSSR | Otvetstvennye Redaktor | D-r Geol.-Min.Nauk V.S.Samoylov | Logo | Novosibirsk | Izdatelstvo "Nauka" | Sibirskoe Otdelenie | 1985

Cementb: 170, [3], [3 advert]p; 13 photos on 4 glossy f; 26 fig; 34 tab. Bright blue wrap, dk blue lett & dec panel on cover. 21.5 x 14 cm (8 3/8 x 5 1/2 in), Cut 2r 10k. 1,000 copies. JSL.

Contr tp; publ data; introd; 5 chs; summ; biblio(p 171-2, 92 entries); tab cont; publ data; adverts.

Geological, petrological, geochemical, and mineralogical studies of lapis lazuli deposits in Lake Baikal and Pamir regions; sketch maps.

3146. IWAO, SHUICHI Albitite and associated jadeite rock from Kotaki District, Japan: A study in ceramic raw materials. *Geol Survey Japan Rept* No 153, 1953, p 1-25, ill, pls, maps, diagr, tabs. 26 cm. Bibliogr p 24-5. True jadeite of lapidary quality but occurring only in very small amounts.

3147. IWATA, T [Diamond.] Publ in Japan, in Japanese, 1923, 397 p. Not seen.

3148. IYER, LAKSHINARAYANPURAN ANANTKRISHNA NARAYANA

Records | Of | The Geological Survey | Of India | Volume LXXVI | Bulletins Of Economic Minerals | No.6.-Indian Precious Stones | By | L.A. N.Iyer | [logo] | Published by order of the Government of India | 1942 | Calcutta: Sold At The Central Book Depot, S.Hastings Street, And | At The Office Of The Geological Survey Of India, 27, Chowringhee Road. | Delhi: Sold At The Office Of The Manager Of Publications, Civil Lines. | Price Re 1 or 1s 6d. [front cover title only]

At head of title: "GSI.11.LXXXVI.VI | [underline] | 625 | "

8°: 54 p; fold summary tab inserted ahead of p 51 & numbered p 50; 3 photo pls on 2 glossy f at end of text. Pale green print wrap, cover title; other survey publs. 24.5 x 15.7 cm(9 5/8 x 6 1/8 ln). Cut. JSL.

Cont: cover title; pref; tab cont; text; fold tab; biblio(57 entries);pls.

This is the first monograph on the gemstones of India issued by the Survey, however, as stated in the preface, it does not consider organic gemstones as pearls, coral, and amber. An introductory chapter discusses gemstones in general, including imitations and synthetics, their identification, and their cutting. The remaining text describes the species found in India, Ceylon, and Burma, beginning with diamond and progressing through all major and minor gemstones and with some rarities as phenakite, euclase, dioptase, enstatite, bronzite, hypersthene, diopside, spodumene, etc. The properties of the important stones are summarized in the folding table.

3149. -----1944, edit Edgestapled: 2, [2], 25, [2]p; wraps includ in pag; one glossy pl at end of text with 3 photos. Tan print wrap. 25 x 16 cm(9 3/4 x 6 3/8 in). Cut. Biblio, p 24-5, 59 entries. Greatly shortened version.

3150. -----1961, edit, rev by R.Thiagarajan

Bulletins | Of The | Geological Survey Of India | Series A-Economic Geology | No.18 - Indian Precious Stones | By | L.A.N.Iyer, M.A., Ph.D., D.I.C. | (Originally published as Bull.No.6, Rec.G.S.I., Vol 76) | Revised By | R.Thiagarajan, M.A., B.Sc., | Geologist, Geological Survey Of India. | [logo] | [rule] | Published by order of the Government of India | [rule]

| Printed In India, By The Manager, Government Of India Press, Calcutta, | And Published By The Manager Of Publications, Civil Lines, Delhi, 1961. | 11 GSI/58 1

8°: iv, 105 p; 2 map pls(one fold) at end; 6 tab. Pale yellow print wrap, title on cover. 24.4 x 16 cm(9 5/8 x 6 1/4 in). Cut. Rs 3.60 nP or 8sh 6d. JSL.

Cont: tp; pref; tab cont; ill list; text; 2 appends; biblio(p 90-105, 249 entries); maps.

Now confined to the gemstones of continental India, excluding Burma and Ceylon. As before, the first part of the text deals with principles of gemology while the main body describes the stones. Interesting and useful feature: a glossary of Indian names for gemstones, p 89, taken from Tagore's *Mani-Mala*, which see, and Valentine Ball's *A Manual for the Geology of India*, which see. Min Abstr, 16, 2, 1963, 159.

END OF INDIAN PRECIOUS STONES

3151. -----1948

A Handbook Of | Precious Stones | by | Rao Bahadur Dr.L.A.N.Iyer, | M.A., Ph.D.(Lond.), D.I.C., M.M.G.I. | (Late Petrologist, Geological Survey of India) | J.N.Tata Professor of Geology, Patna University | With a Foreword by | W.D.West, | C.I.E., Sc.D., F.N.I., M.M.G.I., | Director, Geological Survey of India | Baptist Mission Press, | Calcutta. | 1948 [priv publ]

8°: x, 188 p; 38 fig(23 on tip-in fold pl). Red cloth, limp bds, gold spine title. V pale gray dj, title on cover. 18.2 x 11.8 cm(7 1/8 x 4 5/8 in). Cut. Rs 15 net. LC 54-44021. JSL.

Cont: tp; dedic; fwd; tab cont; pref; text; prop tab; biblio(p 168-74, 101 entries); index; publ data.

A fairly complete general treatment of gemology written in popular terms and presumably meant to replace or supplant the somewhat similar publications above, especially insofar as Iyer emphasizes the gemstones that occur in India, Burma, and Ceylon. The first part treats principles and is followed by a second part on descriptions. Because of the author's familiarity with native gemstones, this work remains a valuable reference. Commendable features include descriptions of native mining, terms used, histories of previous mining attempts in the countries named, and a bibliography that is large, detailed, and paginated! This work is scarce.

3152. -----1953

Memoirs | Of The | Geological Survey Of India | Volume 82 | The Geology And Gem-Stones | Of The Mogok Stone Tract, | Burma. | By | L.A.N.Iyer, M.A., PH.D., D.I.C., | Geologist, Geological Survey of India (Retired) | Published by order of the Government of India. | Calcutta: Sold At The Central Book Depot, 8 Hastings Street, And | At The Office Of The Geological Survey Of India, 27, Chowringhee Road; | Delhi: Sold At The Office Of The Manager Of Publications; | Europe & America: Sold At The Office Of The High Commissioner | For India, India House, Aldwych, London, W.C.2. | 1953.

Edgestapled: [2], 100 p; 2 text fig; 15 photos on 3 glossy f bound-in at end(Pls 1-6), with 2 fold geol sketch maps(Pls 7-8). Pale tan wrap, title on cover; other survey publs inside covers & back. 24.1 x 15.8 cm (9 1/2 x 6 1/4 in). Cut. Rs.4/12- or 7 sh.6d. USGS GS 56-32. JSL.

Cont: tp; ser 1/2tp; tab cont; pls list; text; biblio(p 94-6, 55 entries); locality index; subj index; pls.

A short geographical sketch begins the text and is followed by remarks on previous investigations and maps, the geological succession of rocks and formations, structures, descriptions of rocks, mineralogies of same, with Ch 9, p 34-42, on the crystalline Mogok limestone(marble) in which the major gemstones are found. Further rock descriptions go on from this chapter and it is not until Ch 19, p 82-8, and Ch 20, p 89-93, that gem and mineral resources are discussed. Gemstones are corundum, spinel, topaz, quartz, zircon, beryl, tourmaline, lapis lazuli, feldspar, and peridot. By far most text is devoted to basement rock, and other formations and the actual space devoted to gemstones is so small that one may say justifiably that the title is misleading.

3153. IZVESTIYA IMPERATORSKAGO OBSHCHESTVA... MOSKOVSKOM UNIVERSITETE

Yantarnye ostrova na Baltiiskom More, vol 33, vyp 1, 1878(1880), 393-412. Not seen. On Baltic amber.

3154. JACKA, JERRY & GILL, SPENCER

Turquoise Treasures | The Splendor of Southwest Indian Art | Photography by Jerry Jacka | Text by Spencer Gill | [orn] [Portland, OR: Graphic Arts Center Publishing Co., 1975]

12°: [48]f; 80 col photos(7 scenes, 6 portrs, jewelry, cut & rough turquoise, objects set with turquoise, etc). White-veined blue paper over bds, large silver symbol on cover; silver lett spine. Col dj, col photo on front; resume, vitas. Black endp. 25.3 x 25.4 cm(10 x 10 in). $19.50. LC 75-7141; ISBN 0-912856-21-1. JSL.

Cont: 1/2tp; front; tp; publ data; [2]f of col photos; [6]f text; remainder col photos; ackn.

Primarily a picture book, superbly illustrated, depicting a wide variety of turquoise objects and jewelry, mainly from the Southwestern United States, and identified as to source, but there is also a little Persian material included. The jewelry ranges from some early pieces to many modern pieces that are now departing from the traditional styles and motifs. Many pieces are also set with or combine shell, coral, and jet with turquoise. The brief text gives a thumbnail sketch of the history of turquoise, especially its cultural significance to the Indians, but also includes brief remarks on mineralogy, geology, and mining. Parallel with these remarks, in columns, are notes on the curious lore of turquoise.

JACKSON, CLEMENTS FREDERICK VIVIAN(1873-1955)

Austral public servant, mining engineer, geologist; educ Royston Coll & Sydney U, New South Wales; BE (ist) in Civil Eng 1895; various occupations, returning to Sydney U to grad as mining eng 1900; in service Queensland Govt & Govt W Austral.

3155.-----1902

Queensland.| [rule] | Department Of Mines. | [rule] | Geological Survey Report, | No.177. | [rule] | The Opal-Mining Industry | And The | Distribution of Opal Deposits in Queensland. | By | C.F.V.Jackson, B.E., Etc., A.M.I.C.E., | Assistant Government Geologist | [logo] | Brisbane: | By Authority: George Arthur Vaughan, Government Printer, William Street. | [rule] | 1902.

Edgestapled: 34 p; 22 bound-in photo pls on as many f; 2 fig; fold col geol map(35.5 x 61 cm or 24 x 14 in) tip-in at end. Pale greenish-gray print wrap, cover title. 24.9 x 15.7 cm(9 3/4 x 6 1/4 in). GS 8-550. JSL.

Cont: tp; ltr of transmittal; synopsis of cont; text; map.

The first major monograph on the geology, mineralogy, etc of the opal fields of Australia, in this instance, those of Queensland. The initial section on history, though brief, is of value, describing discoveries, early mining attempts, and giving production figures from 1891 to 1901, inclusive. This is followed by short sections on general geology, extent of prospected ground, mineralogy, mode of occurrence, mining methods, then varieties, qualities, trade, etc in precious opal. Considerable detail is supplied on individual mines and prospects by name in a "Descriptive Register of Opal Deposits, with Geological Memoranda," p 14-34. The plates interspersed throughout this part of the work depict geological features, specimens of opal, mines & miners, and mine workings. The folding map is rich in detail and pinpoints deposits. A very scarce work, made so in part by decaying wrap paper and almost always found without the map which also suffers from having been printed upon perishable paper.

3156. JACKSON, JEREMY & ROGERS, TONY

Pebbles | To | Pounds | Jeremy Jackson | Tony Rogers | 15p | 3/-. [title from front wrap; 1969?]

P 1 "Published by Rotographic Limited, 56 Belgrave Road, Torquay, County Borough of Torbay [England]."

Centerstapled: 32 p; 15 fullp col photos. Col wrap, title on front. 12 x 7.5 cm(4 3/4 x 3 in). Cut. JSL.

Trivial, often inaccurate or misleading; ostensibly a guide to "valuable" gemstones in the British Isles, with the inference that these may be found everywhere and one needs only to pick them up. The color plates commonly depict gemstones which have not been found in the British Isles.

3157. -----1979?

Gen On | Gemstones | Jackson and Rogers | 15 p [Cover title only]

Publisher as above.

Centerstapled: 36, actually 37 p, With p36 carried to inside back cover and numbered 36 b; col photos, fig. Col wrap, back cover resume. 11.7 x 7.5 cm(4 5/8 x 3 in). Cut. ISBN 901170 13 5. JSL.

Basic facts on gemstones and how they are cut and polished and set into inexpensive ready-made jewelry.

JACKSON, J R, see LOWN, C & BOOTH, H

3158. JACKSON, JOHN WILFRID

[sic:] [From Volume 60, Part III., of "Memoirs And Proceedings Of The Manchester | Literary And Philosophical Society," Session 1915-1916.] | The Geographical Distribution of the | use of Pearls and Pearl-shell. | By | J.Wilfrid Jackson, F.G.S. | Manchester: | 36, George Street. | [rule] | Price One Shilling and Sixpence. | September 6th, 1916.

P[1]: "Manchester Memoirs, Vol. ix. (1916), No.12. | [article] XII. ... (Read April 4th, 1916. ..."

8°: 53, [1 blank]p; map. Pale green wrap, cover title. 21.6 x 14.1 cm (8 1/2 x 5 1/2 in). Cut. USGS Kunz Coll, GS 34-546.

Cont: tp; text; blank p. Substance incorporated in paper below.

3159. -----1917

Shells As Evidence Of | The Migrations Of | Early Culture | By | J.Wilfrid Jackson, F.G.S. | Assistant Keeper Manchester Museum | Honorary Librarian of the Conchological Society of Great Britain and Ireland | Manchester | At The University Press | 12 Lime Grove, Oxford Road | Longmans, Green & Co. | London, New York, Bombay &c. | 1917

P[1]: "Publications Of The University Of Manchester, Ethnological Series, No.II." P [iv]: "Publications Of The University Of Manchester, No. CXII."

8°: xxviii, 216 p; front pl tip-in; 3 others tip-in; 5 maps; 5 fig. Blue cloth, gold lett spine & Univ logo. 21 x 13.8 cm(8 1/4 x 5 1/2 in). Cut. JSL.

Cont: series tp; publ data; tp; series tp; dedic; tab cont; ill list; pref; introd; 2 chs; 2 appends; biblio 20 entries; index.

P 210 advises that this book incorporates four memoirs previously published in the periodical noted above, but "with new plates and additional information." Chiefly of interest is Jackson's memoir on the pearl and pearl-shell, p 70-122, which condenses an impressive fund of archeological & anthropological information which the author culled from a great many sources, as furnished in the footnotes. A sketch map of the world indicates dozens of places where pearls and nacre were used in prehistoric and historic times, obtained from fresh-water as well as saltwater sources. Topics: pearls & shell, where & how obtained, uses in ornament and in domestic applications, possibility that cultures can be interrelated on the basis of their shared knowledge of nacreous materials and similar uses. Interesting, valuable work, unfortunately almost totally neglected by writers on pearls and nacre.

3160. JACKSON, JULIAN R (1790-1835)

Minerals | And | Their Uses. | In | A Series Of Letters | To A Lady. | By | J.R.Jackson, F.R.S., | Member Of The Imperial Mineralogical Society | Of St.Petersburg. | [rule] | Hence Labour draws his tools... [4 lines]... The round of Nations in a golden chain. | Thomson. | [rule] | London: | John W.Parker, West Strand. | [rule] | M.DCCC.XLIX. [1849]

Allibone, 1, p 946, gives under a "Col.J.R.Jackson" a work entitled "Letters on Minerals," London, 1849, 12mo, which may be the same.

8°: xvi, 464 p. Engrav front pl by J W Lowry, tip-in, exquisitely hand-col of cut gems, tissued. Blue cloth, fading to greenish, gold Regent Diamond on cover, orn blind borders; gold lett & blind bands on spine; the diamond also stamped blind on back cover. Orangey-yellow endp, dull finish. 17.7 x 11.5 cm(7 x 4 1/2 in); te uncut; fe part uncut. LC 12-1678. JSL. Cheaper reprint: ornate stamped covers less Regent; gold lett & florals along entire spine length; green or red cloth.

Cont: 1/2tp; pl; tp; pref; errata; tab cont; pl caption & notes on gem cutting; 35 "letters"; append; index.

A charming melange of interesting facts, fancies, and anecdotes, In popular style, using the device of letters to an unnamed lady, and treating most of the mineral productions of importance, but with major emphasis laid upon gemstones. The latter, mineral and organic, are to be found in letters 1 to 17, 20, and in 32, with letter 35 treating talismans, hieroglyphic rings, and

the stones that may be used in them. The appendix contains an identification table for minerals, arranged according to distinctive properties. An excellent work that provides instructive reading although copies are now rarely obtainable.

JACKSON, K A, see NASSAU, K, 1970

3161. JACKSON, MALCOLM [Pseud]

Gems | The | Beautiful | Inve$stment [sic] | by Malcolm Jackson. [np, nd; "Copyright... R. Lary Kuehn Productions, Inc. 1974", Dallas ?]

Cementb: [3], [1 blank], 52 p; 4 ill. White & black wrap, title in white & red on cover, outlines of cut gems; resume back cover. 21.7 x 14 cm(8 5/8 x 5 1/2 in). Cut. JSL.

Cont: tp; publ data & disclaimer; tab cont; 9 chs; concl; vita; gloss.

Written in slangy, sensational style, claiming that investment in gems can yield retention of real versus paper-money value. Gives advice on how to judge gems, suggests buying "undervalued" gems as garnets, peridot, quartzes, jade, topaz, and tourmaline, sources of gem buys, security problems, and with a price guide in which standard gems are tabulated along with their usual colors and prices one would expect to pay for examples in the range 5-15 carats. Ch 9, a space-filler, is on gem legends. The author is in the gem trade, and despite some good advice, his recommendations can be interpreted as self-serving.

3162. JACKSON, ROBERT & JACKSON, KAY

A | Rockhound's Guide | To | Metropolitan | New Jersey | By | Bob & Kay Jackson | Price $2.50 | Published by: | Jax Products | 12860 24th Avenue South | Seattle, Washington 98168 | Copyright 1973 Jax Products

Centerstapled: 50, [2]p; 9 photos, 25 sketch maps, 1 diagr. White print wrap, cover title, specimen sketches. 21.2 x 13.9 cm(8 3/8 x 5 1/2 in).

Directions for collecting sunstone, carnelian, serpentine, garnet, and quartz crystals; localities not all in NJ.

3163. JACKSON, STANLEY

Stanley Jackson | [orn rule] | The | Great Barnato | [logo] | Heinemann: London [1970]

8°: [2 blank]f + xv, [3], 278 p + [2 blank] f; blanks integral to ist & last gatherings & serve as endp & flyleaves; tip-in glossy front pl + 22 photos on 8 tip-in glossy f; sketch map; 4 fig. Pale tan cloth, blue spine panels with gold orns & lett; col dj, resume, reviews. 21.6 x 14 cm(8 1/2 x 5 1/2 in). Cut. Te stained blue. 55s or £ 2.75. JSL.

Cont: blank ff; 1/2tp; other bks of author; pl; tp; publ data; dedic; quote; tab cont; ill list; fwd; family tree; sketch map; 19 chs; epilog; biblio(p 268-9, 40 entries); index; blank ff.

A detailed biography of Barney Barnato(orig Barnett Isaacs, then Barnett Barnato; 1852-97) describing his life, up to the time of his death at sea. The epilogue provides a short sketch of major events in the lives of his heirs and members of the Joel family. In his foreword, Jackson points out that the first biography of Barnato, by Raymond(1897), which see, was "hurriedly rushed into print" a few months after Barnato's death, while Cohen's *Reminiscence* books(1911,-24), which had much to say about Barnato, suffered from Cohen's hostility toward Barnato and thus were unreliable. The last thorough biography, by Lewinsohn(1937), was also defective in Jackson's opinion because "it narrates many of the then-known facts without attempting to assess Barnato's character or offer much enlightenment on his complicated relations with Rhodes, Kruger, the Joels and other key figures in the story." There is little doubt that the present work does not suffer from this deficiency because Barnato's character is throughly examined from the moment it first manifests itself and as shaped by subsequent events. Invaluable for its explanation of Barnato's career in diamond mining in South Africa and probably the best source of information in this respect. The photographs are mainly of persons, with a few snaps of places, and some early scenic views in Kimberley.

JACOBI, JOHANN GEORG(1740-1814)

Ger educ; b Düsseldorf; prof phil & eloquence Halle U; in 1784 apptd prof belles-lettres Freiburg.

3164. -----1796

Beschreibung | Einiger Der Vornehmsten | Geschnittene Steine | Mythologischen Innhalts. | Aus Dem | Cabinete Des Herzogs Von Orleans. | [rule] | Aus dem Französichen ausgeszogen | und mit | Anmerkungen begleitet | von | J.G.Jacobi, | ordentl. öffentl. Professor der schönen Wissenschaften | aus der Universität zu Freyburg im Breisgau. | [rule] | Zürich, | Bey Orell, Gessner, Füssli und Comp. 1796.

4°: 123, [1]p; [A]^4, B-P^4, Q^2; 16 gems on 8 engrav pls bound-in. 25.3 x 20 cm(10 x 7 7/8 in). Cut. JSL; Metropol Mus Cat 9.

Cont: tp; transl pref; pref to orig work; transl remarks; text; errata.

Selected gems of mythological import from the cabinet of the Duke of Orleans are described, the substance of the text being derived from Abbé de la Chau & Abbé de la Blond's *Descriptions des Principales Pierres Gravées du Cabinet de S.A.S. Msgr. le Duc d'Orleans*, which see. The engravings are very well executed after the originals by D Beÿet, whose signature as engraver appears only on the first plate. In regard to the original engravings by St Aubin, Jacobi states that "I know of no collection in which engraved gems are so outstandingly described by means of engravings as this one(p 4)." See also Zazoff, *Gemmensammler*, 1983, p 174. A very rare work.

3165. JACOBS, HENRI & CHATRIAN, NICOLAS

Monographie | Du | Diamant | Par | H.Jacobs et N.Chatrian | [orn rule] | [left, in column:] Anvers | Librairie Universelle | de | Louis Legros | 45, Place de Meir, 45 | [central vertical wavy rule] | [to right:] Paris | Librairie Universelle | ancienne et moderne | de J.Seppré | 60, Rue des Écoles, 60 | [below, in center:] 1880

8°: [3], [1 blank], 211, [2], [1 blank] p, the last f is supplied; 4 photo pls bound-in. V pale green print wrap, cover title; title, rules, orn on spine; publ back cover. 22.8 x 14.2 cm(9 x 5 1/2 in). Uncut. USGS Kunz Coll, GS 34-990; JSL.

Cont: 1/2tp; tp; pref; 6 chs; tab cont; pls list; blank p.

A general treatise on the diamond which in its time enjoyed the position of being the authoritative work on the subject. Topics: crystallization(but not confined to diamond), ancient knowledge of the diamond, its properties, composition, origin, attempts at synthesis, worldwide deposits with detailed descriptions of those in India, Australia, Africa, and Brazil, history &

methods of cutting, and exceptionally large or famous diamonds. Another issue was seen in which no plates were included and the pls list omitted. This first edition was completely outclassed by the second below.

3166. -----1884, 2nd edit, title change

Le | Diamant | Par | Henri Jacobs Et Nicolas Chatrian | [rule] | 20 Planches Hors Texte | A l'Eau-Forte, En Chromolithographie, En Héliogravure | Et 34 Gravures Sur Bois | [jewel] | Paris | G.Masson. Éditeur | Libraire De L'Académie De Médecine | 120, Boulevard Saint-Germain, en face de l'École de Medecine | [rule] | 1884 [title in vermilion & black]

8°: VII, [1 blank], 356 p; tip-in front col litho pl with tissue; 7 photograv pls, 10 engrav pls, 27 text wood engravs including 6 maps, some fullp; also 8 engrav ch orns of jewels, etc. All pls tip-ins with tissues. Pale gray-blue cloth, gold title on cover in elaborate gold & black frame; similar orn & lett spine; all-black orn & frames back cover. Pale gray dull finish endp. 31 x 22.6 cm(12 1/4 x 9 in). Cut. Teg. Also issued in paper wrap, cover title. USGS Kunz Coll, GS 34-781; JSL.

Cont: 1/2tp; print data; pl; tp; pref to ist edit; pref; 6 chs; tab cont.

Uncommonly attractive and a splendid example of Victorian book manufacture, with elaborate decorations. While it is stated to be the second edition to the above, it bears little resemblance either in appearance or content. The topics remain the same, but some have been taken from previous positions and placed elsewhere, while the text is entirely rewritten and much enlarged. References to illustrations are made in the text which was not the case before. All plates are of exceptional quality, particularly those reproducing etchings which are of high artistic merit. The engraved plate facing p 316 copies the first plate in Jeffries' *Treatise on Diamonds and Pearls*, which see. The frontispiece depicts a marvelous parure in sapphires and diamonds, with a pendant pearl, the central sapphire being a brilliant of very large size. While the title states that there are 20 plates, there are actually 3 less, the publishers counting in three of the fullpage text figures; these are included in the pagination, however and do not bear tissues. Scarce.

3167. JACOBSON, W Diamond tool patents IV: polishing of gem diamond. London: Industrial Diamond Information Bureau, December 1950. Edgestapled: 40 p, 82 fig. Pale blue print wrap. 24.7 x 18.8 cm(9 3/4 x 7 3/8 in). Cut. 12 s 6d. JSL. Lapidary machines and accessories for shaping, faceting, and polishing diamonds and other gemstones. Illustrations are patent office drawings.

JACQUES, GEORGE B, see JAQUES & MARCUS

3168. JÄGER, E & HUTTENLOCHER, H Zur Optik und Morphologie von synthetischen Rubin. *N Jb Min*, Monatshefte, 1953, 12, p 265-72, 9 fig., 1954. A study aimed at simplifying and increasing accuracy in orientation of synthetic ruby boules prior to sectioning by use of dichroism and surface study of very small overgrowth figures on the sides of the boules. The optical axis is shown to pass diagonally through the boules.

3169. JAGERSFONTEIN Jagersfontein: past and present. A souvenir of Jagersfontein, 1870-1904. Printed and published by F.C.Hundermark, Jagersfontein, Orange River Colony. [1904]. Oblong: 36 p, 8 1/2 x 5 1/2 in. Not seen; from Mendelssohn who states "the sketch gives the history of the early days of the town and mine, with many portraits and other illustrations."

JAGGAR, T A, see BISHOP, H R, 1900

3170. JAGNAUX, RAOUL(1845-)

Traité | Minéralogie | Appliquée | Aux Arts, A L'Industrie, Au Commerce | Et A L'Agriculture | Comprenant | Les Principes De Cette Science, La Description Des Minéraux, | Des Roches Utiles, | Et Celle Des Procédés Industriels Et Métallurgiques | Auxquels Ils Donnent Naissance | A l'Usage | Des Candidats A La Licence, Des Ingénieurs, Des Chimistes | Des Métallurgistes, Des Industriels, Etc., Etc. | Par | Raoul Jagnaux | Ingénieur-Chimiste | Membre De La Société Des Ingénieurs Civils Et De La Société Minéralogique De France | Avec 468 figures dans le texte | Paris | Octave Doin, Éditeur | 8, Place De Odéon, 8 | [rule] | 1885 | Tous droits réservés.

8°: [6], iv, [2], 883, [1 blank]p; 468 wood engravs. 24.2 x 15.5 cm (9 1/2 x 6 in). Cut. 20 Fr. JSL. Probably in printed wrap.

Cont; other publ bks; 1/2tp; other bk of author; tp; pref; dedic; general remarks; text in 5 books; biblio(p 863-5, 93 entries); tab cont; index.

Large, detailed, and valuable. Bk 1 treats theoretical mineralogy, physical properties, crystallography, chemistry, etc. Bk 2: carbon and inorganic materials, also sulfur, boron and silicon. Bk 3: potassium, sodium, barium, strontium, calcium, magnesium, and aluminum. Bk 4: silicates. Bk 5: metallurgy and the metals and ores. The second book, p 149-75, with text figures, treats the diamond, giving properties, crystallography, chemistry, origin, occurrences, cutting & styles of cuts, weights & prices, famous diamonds, and bort & industrial diamond. Amber is also treated briefly, p 247-8, while quartz in all its varieties is described on p 265 to 297 and includes opals and glasses. Book 3 includes alabaster(calcite onyx) and marbles, p 341-54, and gem varieties of corundum, p 403-7, followed by brief remarks on gem spinel, chrysoberyl, and turquoise. Book 4 contains numerous silicate gemstones, eg, kyanite, andalusite, staurolite, feldspar, beryl, topaz, garnet, tourmaline, lapis lazuli, and axinite. There is an enormous amount of information in this book and it represents a fair survey of contemporary knowledge of the mineral materials named.

3171. JAHN, JOHANN GOTTLIEB

Die | Perlenfischerei | im | Voigtlande, | in topographischer, natur= und zeitgeschichtlicher Hinsicht nach den besten | Quellen verfasst und dargestellt, mit den einschlagenden Urkunden und | Beweisstellen versehen, beleuchtet und herausgegeben | von | Dr.J.G.Jahn, | mehrerer gel. Gesellschaften ordentl. und correspond. Mitgliede. | [orn rule] | Oelsnitz, 1854. | Selbstverlag der Verfassers. In Commission bei F.G.Neupert in Plauen. | [rule] | Preis: 1 Thlr. 10 Ngr.

8°: VIII, 208 p. Bright green wrap, title in orn frame on cover; spine title; orn frame back cover with print data. 23.3 x 13.7 cm(8 3/4 x 5 3/8 in). Uncut. USGS Kunz Coll, GS 34-413.

Cont: 1/2tp; tp; introd; text; geneological table.

A large, elaborate history of the freshwater pearl fishery in Voigtland, Saxony, Germany. Describes geography of land & waters, the special features of rivers and other bodies of water

inhabited by the pearl-bearing mussels, natural history of the mussel, the value of the pearls, fishing and recovery methods, the history of the Elster River fishery, early and recent regulations governing the industry, and a specific historical treatment of the fishery in each of several waters, giving date of commencement, the persons exploiting the waters assigned or leased to them, and other details. There is a table showing descendents of the families involved. About half the space is devoted to scientific aspects while the other half deals with the fishermen and their lives. A rare work, privately published.

JAHNS, RICHARD HENRY (1915-1983)

USA geol, mineralogist, specialist in granitic pegmatite studies; b Los Angeles; BS(geol) Calif Inst Tech 1935, PhD(geol) 1943; MS Northwest U 1937; geol USGS; prof Calif Inst Tech 1946; chair econ min Penn State U 1960-65, later dean Coll Min Industries; dean School Earth Sci, Stanford U 1965-. Obit G E Brown & R C Ewing, *Amer Min*, 71, 1986, 652-54, portr, partial bibliogr.

3172. -----1960 Gem stones and allied materials. Ch 18, p 383-441, in *Industrial Minerals and Rocks*, etc, 3rd edit, rev, New York: The American Inst of Mining, Metallurgical, and Petroleum Eng, 1960. Also issued sep: pale blue print wrap edgestapled, original pag. 25.5 x 17.8 cm(10 x 7 in). Cut. Added hand-stamped title: "Contribution No.60-61 College Of Mineral Industries The Pennsylvania State University"

The first(1937) and second(1949) editions of the basic book contained chapters on precious stones by Sydney H Ball, which see. The present chapter, however, is an entirely new production rather than a revision. It reflects a careful search of the literature to present a concise and accurate analysis of the industry at the time of writing. Topics: nomenclature, qualities, properties, uses, industrial applications, origin, deposits, geographic distribution, mining, synthetic & immitation materials, production & consumption, marketing, price structures, cutting. Of particular value are tables of production & values which by means of an auxiliary graph show price ranges in dollars per carat versus weight, and is one of the very few places in gemological literature wherein an attempt is made to provide such price ranges and trends. There are 20 figures and 7 tables, References: 16 periodicals, 85 other.

3172A. -----1975. Gem Materials. Ibid, 4th edit, completely rev & rewritten, 1975, p 271-326, 17 fig, 7 tab, biblio p 324-6, 134 entries. All matter brought up to date.

3173. JAHNS, RICHARD HENRY & WRIGHT, LAUREN A Gem- and lithium-bearing pegmatites of the Pala district, San Diego County, California. *Calif Div Mines Spec Rpt* 7-A, San Francisco, 1951. Centerstapled: 72 p, 13 pls(5 part-col geol maps, part fold, in pocket), several pls with col drawings of gems & rough; 35 fig. Pale green print wrap, black bars & lett on cover. 28 x 21.6 cm (11 x 8 1/2 in). Cut. $2.50. Pls 6-13, glossy paper, stapled-in(col). USGS GS 51-144; JSL. Very detailed study of the famous gemstone-productive granitic pegmatite bodies that outcrop on the Tourmaline King, Pala Chief, Hiriart Hill, and Pala Mountain around the Indian village of Pala. Includes brief historical notes, miners and mining methods, finds, character of gem pockets, and with excellent illustrations. Prized by collectors and miners for advice in text and the accurate, detailed maps of selected pegmatites and their workings. This popular work has been reprinted several times but in 1976 was declared out-of-print. Rev R Webster, *J Gemm*, 3, 5, 1952, p 198.

3174. JAMES, BILL

Collecting | Australian | Gemstones | Bill James | Murray | Sydney:: Melbourne [K.G.Murray Publ Co Pty Ltd, Sydney, NSW, nd, 1965]

8°: 191, [1]p; 32 col & 48 b&w photos on 24 bound-in glossy f; 44 text fig; 12 sketch maps. Dk green cloth-type paper over bds; gold lett spine. Col dj, resume, vita. 22.9 x 15.1 cm(9 x 6 in). Cut. AUS 42 s, 6 d.

Cont: 1/2tp; publ data; tp; publ data & ackn; tab cont; ill list; introd; 15 chs(last is gloss); maps; index. JSL.

The title should have included some words on gem cutting inasmuch as chs 10-13 are devoted to same. Early chapters treat some gem lore, and attempt to impart a few fundamentals of mineralogy as well as advice on prospecting. A list of gemstone localities is on p 37-45. Other topics treated are genesis of deposits, instructions for prospecting for specific gemstones, prospecting for gold, where to get further advice, and other hints. There are numerous illustrations among which are blatant copies, without acknowledgment, of illustrations from Sinkankas' *Gemstones and Minerals, How and Where to Find Them*, 1961. Others are copied from that author's *Gem Cutting*, 2nd edit, 1962. As with so many books which attempt to cover too much in too few pages, the present book treats topics too briefly to be useful. The author a journalist, has no special qualifications for writing this book. Rev *J Gemm*, 13, 2, 1972, 76; see esp comments H Leiper, *Lap J*, 19, 6, 1965, 725.

3175. -----1970: from dj "fully revised 4th edition," no date, "9th impression, 1970," 8°: 191, [1]p; minor changes in ill; introd with new para. Price AUS $5.50; ISBN 85566 015 5.

3176. -----1967

Gemstones | To | Jewellery | Edited By | Bill James | Murray | Sydney Melbourne [1967]

16°: 184 p; ca 100 line drawings & many photos on 20 bound-in glossy f. Bright red cloth-type paper over bds; gilt lett spine. Col dj, resume, vits. 22.9 x 15 cm(9 x 5 7/8 in). Cut. Nat Libr Austral Reg No AUS 67-986. JSL.

Cont: 1/2tp; publ data; tp; publ data; tab cont; ill list; ackn; introd; 12 chs; append; index.

Contributors: Jack S Taylor, Ch 3, Lloyd Meller, Ch 4, and Laurel Gorn, Ch 8-10. As before, James attempts to cover the entire spectrum of lapidary work from cutting to making jewelry and quite naturally fails to provide more than the bare essentials which tantalize rather than satisfy. Only the chapters on jewelry making by Gorn appear to be adequate. Unsigned chapters, presumably by James, are replete with misstatements, errors of fact, needless use of alternative gemstone names, and crude crystal form illustrations which commonly are incorrectly drawn. Gemological errors are pointed out by M O'Donoghue, *J Gemm*, 13, 2, 1972, 75. This work was reprinted and called a "second edition" by Bailey Bros. & Swinfen, Folkestone, England, 1967, 184 p, £3.50.

3177. JAMESON, H LYSTER On the identity and distribution of the mother-of-pearl oysters; with a revision of the sub-

genus Margaritifera. *Proc Zool Soc London*, 1, 1901, 372-94. Not seen: Kunz & Stevenson, *Book of the Pearl*, bibliogr.

3178. -----1902 On the origin of pearls. *Proc Zool Soc London*, 1, 1902, 140-66, Pls XIV-XVII, fig 22-24. Also issued separately: p [1-28], first p blank, plain blue wrap, cover title. 22.3 x 15.4 cm(8 3/4 x 6 in). Cut. Kunz & Stevenson, *Bk of the Pearl* bibliogr; JSL. Previous theories on pearl formation reviewed, including pearls formed in non-nacreous mollusks; describes structures and anatomy of host, types of pearls, pearl structure, origin, and development. There are remarks on artificial infection, foreign organisms and bodies in pearls, and an important bibliography which lists works from 1712 to 1901. Of the 4 pls, 3 are diagrammatic, the 4th is a photo showing inner concentricity of pearl sections. An important paper.

3179. -----1912 Studies on pearl-oysters and pearls. I. The structure of the shell and pearls of the Ceylon pearl-oyster (Margaritifera vulgaris SCHUMACHER). With an examination of the cestode theory of pearl production. *Proc Zool Soc London*, 1912, 260-358, Pls XXXIII-XLVII. Examines nacre and suggests that concentric structure in pearls due to rhythmic deposition of calcium carbonate from the epidermis.

JANDER, J, see THILO, E, et al

3180. JANGL, ALDA MARIAN & JANGL, JAMES FRANCIS

Ancient Legends | of | Gems and Jewels | Created and illustrated by | Alda Marian Jangl | and | James Francis Jangl | 2nd Printing, June 1985 | © A & J Jangl, 1985 [Virginia Beach, Virginia]

Centerstapled: [iv], 27, [1]p; 19 text sketches. Pale tan wrap, title & sketch on cover in black border; small sketch & publ data back cover. 21.6 x 13.9 cm(8 1/2 x 5 1/2 in).

Very brief stories on 30 stones, from agate to zircon, and with a final disclaimer concerning any medicinal values implied in the text. There are no sources of information cited and many statements do not have the support of previously published works on the curious lore of gemstones. It seems that some remarks originate here and can be found nowhere else,

JANNETTAZ, PIERRE MICHEL ÉDOUARD(1832-1899); FONTENAY, EUGÈNE; VANDERHEYM, ÉMILE(1833-1889) & COUTANCE, AMEDÉE GUILLAUME AUGUSTE(1841-)

Jannettaz Fr scientist; b Paris; degrees in physics & chem in Paris; joined Nat Hist Mus 1859; Chevalier, Legion of Honor 1885; wrote several important texts, many arts on mineralogical subjects; *Notice sur les Travaux* ...Paris: Gauthier-Villars, 1892, 57 p, also by Meulan, Impr A.Masson, 1882, 25 p, and by L Michel, *Bull Soc Franc de Min*, 23, 1900, 201-4, bibliogr 66.

3181. -----1881

Diamant | Et | Pierres Précieuses | Cristallographie - Descriptions - Emplois | Évaluation - Commerce | [rule] | Bijoux - Joyaux - Orfévreries | Au Point De Vue De Leur Histoire Et De Leur Travail | Ouvrage orné de 350 Vignettes et d'une Planche en Couleur | Par | [left, in column:] Ed.Jannettaz | Maitre de Conferences à la Faculté | des Sciences | Aide-Naturaliste au Muséum | Em.Vanderheym | Président de la Chambre syndicale des | Diamants et des Pierres précieuses | [orn vertical rule; to right, in column:] E. Fontenay | Joaillier-bijoutier | Membre de la Chambre de Commerce | de Paris | A.Coutance | Professeur de Sciences naturelles aux | Écoles de Medécine de la Marine | [logo] | Paris | J.Rothschild, Éditeur | 13, Rue Des Saints-Pères, 13 | rrulel | 1881 | Tous Droits réservés [title in red & black]

8°: XLI, 580 p; tip-in hand-col pls, thin paper guard bearing captions as front; 346 wood engravs; many ch orns. Print wrap, uncut. 24.2 x 16 cm (9 1/2 x 6 3/8 in), large paper? V pale tan paper; watermarked. USGS 33- 215; JSL.

Cont: 1/2tp; print data; pl; tp; pref; errata; tab cont; introd; text; index.

Prior to the publication of Escard's *Pierres Précieuses*, 1914, which see, this was the principal work on gemstones in the French language. It still presents a rich source of contemporary information and provides most rewarding reading. It is also a visually attractive work, filled with many fine wood engravings of considerable artistic merit. The first of two parts of the text treats crystallography in considerable detail, then properties, especially optics of crystals, a specialty of Jannettaz, chemistry, occurrences, lapidary treatment, and uses of gemstones in ornament and in industry. The second part begins with a history and problems of nomenclature, then systematically describes the gemstones in two groups, those that are considered of major importance, and those of "inferior" rank, along with organic materials, identification tables, and imitations & synthetics. The book closes with sections on jewelry & goldsmith's work, with a description of such items as were shown in the Paris Universal Exposition of 1878, a large section on the pearl, and a short discourse on coral.

3182. -----1881, 2nd edit

Diamant | Et | Pierres Précieuses |... [names of authors]...| [rule | Deuxième Édition | [logo] | Paris |... | 1881 |...

Identical except for the addition of the second edition words to the title and a rule; paper thinner, plain stock. originally in pale gray wrap, ornate sepia frame on cover, enclosed in red frame, with title in red & black in ctr; red ltt & rules on spine; back cover publ bk list. 22.8 x 15.3 cm(9 x 6 in). JSL.

3183. JANSEN, E Begrippen over diamantkunde en diamantbewerking in bundel verzameld door E.Jansen. Aalmoeszenior van den arbeid bestuurder der Vakschool voor Diamantbewerkers. Werk met goud bekroond in den prijskamp uitgeschreven door de Provincie Antwerpen. Uitgevers: Maatschappij "Voor God En'T Volk", Huidevettersstraat, 21, Antwerpen, 1923. 16°: [2], 391, [1], 4 blank]p; 329 fig, 3 text maps, 16 tip-in glossy pls(5 part col, 1 fold map). Purplish-brown cloth, dk green & red lett, rule, orn on cover; dk green lett in panel on spine; dk green lett & orn rules on back cover. Tan & gray pattern endp. 24 x 15.5 cm(9 1/2 x 6 in). Cut.

An instructional manual designed to provide apprentices in the diamond cutting industry with a fund of information on the nature and properties of the diamond, details on all aspects of the cutting craft, and a general background in other matters concerning the diamond and the industry. The announced aim is admirably fulfilled in this thorough and comprehensive work. While the first part provides the rather usual descriptions of diamond and other gemstones, the chapters which follow furnish much valuable detail, with many appropriate illustrations, of the step-by-step processing of the diamond from rough to finished gem. The machinery and accessories are also described and

depicted. At the time, this was the most complete instructional manual on diamond cutting available.

3184. JANSSEN, L J F Nederlandsch-romeinsche daktyliotheek... Leyden 1844-66. 1 Part & 3 suppls in one vol; 25 engrav pls. Ns: *Metropol Mus NY Cat*, v 9.

JAPP, ALEXANDER HAY(1840-)

Scot journalist; b Dun, Forfarshire, Scotland; dist in logic, lit, etc at U Edinb; edit *Sunday Mag*; wrote at least 27 bks. *Allibone, Suppl*, 900.

3185. -----1889

Days With Industrials: | Adventures And Experiences Among | Curious Industries. | By | Alexander H.Japp, LL.D,, F.R.S.E, | Author Of | "Industrial Curiosities," "Golden Lives," Etc. Etc. | With Numerous Illustrations. | London: | Trübner & Co., Ludgate Hill. | 1889. | [All rights reserved.]

8°: viii, 304 p; wood engrav front pl with tissue, tip-in + 3 similar pls tip-in; 9 wood engravs in text. Olive-yellow cloth, brown allegorical scene on cover with rules & title in gold & brown; title in gold with gold & brown rules and orn on spine; blind rules & orn back cover; beveled bds. Brown, dull-finish endp. 18.1 x 12.4 cm(7 1/8 x 4 7/8 in). Cut. JSL.

Cont: 1/2tp; other author bks; pl; tp; publ data; pref; tab cont; 16 chs; 3 appends.

A fascinating melange, and as interesting to read as the title suggests but space forbids mentioning more than the following chapters which are useful to the gemologist: Ch 4, pearls, p 86-101; Ch 5, amber, 102-11; Ch 14, on famous diamonds, 240-73, and Ch 15, on artificial diamonds, 274-81. Well-written but necessarily touching only the most important points. The chapter on famous diamonds includes good illustrations of the Koh-I-Noor, Florentine, Polar-Star, Regent, Sancy, Southern Star, Orlov, Great Mogul, and Shah. Several figures are in the text but most are assembled on a single plate; another plate depicts cutting styles.

3186. -----1889, New York edit

Days With Industrials: |...| New York: | Scribner & Welford, | 743 And 745 Broadway. | 1889.

Endp v dk olive; no printer on reverse of tp; otherwise identical.JSL.

3187. JAQUES & MARCUS

Something | About | Neglected Gems | [two rules] | [High Priest's breastplate in color] | [two rules] | Jaques & Marcus | Buek & Kindner Lith. 65 Warren St. N.Y. [1882; entire title chromolith, lett & rules in brown; litho firm in extremely small type & barely legible]

4°: 26 p(tp supplied & counted as p[1-2]). Pale brown thick paper wrap, cemented to pale tan inner endp; title & breastpl in black from front cover; logo back cover. Aeg. 17 x 13.5 cm(6 3/4 x 5 1/4 in). All paper pale straw col. USGS Kunz Coll, GS 33-292. JSL.

Exquisite souvenir booklet issued by the New York jewelry firm to favored customers; the breastplate lithograph in color is particularly fine. The "neglected" gems are zircon, then struggling to gain status for itself and not as an inexpensive substitute for diamond, also chrysoberyl, especially the cat's-eye variety, tourmaline, opal, sapphire, garnet, beryl, peridot and spinel. There are remarks on the appreciation of gems in general, and a substantial section on curious lore. Extremely scarce. It is to be noted that US Geological Survey Catalog entry, GS 33-292, is in error insofar as author is concerned and also in the spelling of the printer on the titlepage, ie, "Jacques" and "Buch" instead of "Buek."

3188. JAQUILLARD, D Une découverte de l'occident contemporain; le jade chinois de haute époque. *Études Asiatiques*, Bern, 16, 1962, 1-61. Not seen; Yang 1551.

3189. JAQUILLARD, PIERRE Matiere et presence: remarques sur quelques jades archaiques de Chine. Neuchatel: 1974, 38 p, 16 pls(4 col), 22 x 18 cm, paper. Not seen: Han-Shan Tang, London, list 28, 1985, no 40: "printed in a limited edition of 600 copies... delves into some problems associated with archaic jades."

3190. JARDIM, CATÃO GOMES A região de Diamantina Minas Geraes), suas riquezas naturaes e seus recursos. *Revista Industrial de Minas Geraes*, anno 3, no 16, 15 Apr 1896, 117-21; no 17, 15 May 1896, 181-91, Ouro Preto, 1896. Not seen.

3191. JARMAN, D F

The | High Priest's Dress; | Or | Christ Arrayed | In | Aaron's Robes. | By The | Rev.D.F.Jarman, B.A., | Minister Of Bedford Episcopal Church, Bloomsbury. | "In Minimis Maximum." | London: | James Nisbet & Co., Berners Street: W.F.Crofts, | 10, Duke Street, Bloomsbury. | [rule] | MDCCCL. [1850]

8°: xx, 158, [2 blank]p; wood engrav full-length representation of High Priest in robes and vestments as front pl tip-in. Dk gray-green or red cloth, ornately blind-stamped panels on cover, that on front with central rect panel in gold with gold title; blind rules on spine only. Bright yellow, dull finish endp. Aeg. 18 x 11.3 cm(7 1/8 x 4 1/2 in). JSL.

Cont: front pl; tp; publ data; dedic; errata; introd; 8 chs; concl; poem; blank f.

Jarman describes the High Priest's robes and vestments according to the Bible, then analyzes in detail what must have been the nature of the materials used in same, their colors, arrangement, etc. Included are numerous references to the gemstones used, especially in Ch 3, 29-46, in which the onyxes used in the shoulder-pieces are discussed at length, and in Ch 4, 47-62, in which the breastplate and its gems are treated in detail. So far as I can determine, this is the first monograph in English on the subject. In the copies I have examined, the cover cloth is so thin that it cracks or splits readily alang the outer hinge creases with the result that spines are frequently missing and sections inside loosened. Rare.

3192. JART, UNA The precious stones in the Revelation of St.John XXI., 18-21. *Studia Theologica*, 25, 1970, 150-81. Not seen: Christel Meier, p 531.

3193. JAYAWARDENA, S A S

Gems Of Ceylon | A Ceylon Government Publication | Issued By The Ministry Of Finance, Ceylon | [rule] | Printed At The Government Press, [Colombo] Ceylon

P.4: "This booklet has been compiled by Mr.S.A.S.Jayawardena... Colombo, Ceylon. 27th May 1966."



THE

HIGH PRIEST'S DRESS;

OR

CHRIST ARRAYED

IN

AARON'S ROBES.

BY THE

REV. D. F. JARMAN, B.A.,

MINISTER OF BEDFORD EPISCOPAL CHAPEL, BLOOMSBURY.

"In Minimis Maximum."

London:

JAMES NISBET & Co., BERNERS STREET; W. F. CROFTS,
10, DUKE STREET, BLOOMSBURY.

MDCCCL.

3191. Titlepage and facing frontispiece to Jarman's treatise on the breastplate gems

Edgestapled: 48 p; 12 photos, 21 col photos. Thick white wrap, col drawing on cover with title. 18.1 x 12.1 cm(7 3/8 x 4 3/4 in). Cut. Rs.2.50. JSL.

Informational booklet for tourists buying gems. Brief notes on the history of the industry in Ceylon, methods of mining, cutting, and descriptions of andalusite, apatite, beryl, chrysoberyl, corundum, diopside, feldspar, fibrolite, garnet, iolite, kornerupine, quartz, sinhalite, spinel, topaz, tourmaline, and zircon. The photos are mainly scenes in gem pit areas while the color photos depict cut & rough gemstones and some jewelry.

3194. JAYNE, HORACE HOWARD FURNESS A handbook of the Chinese Collections in the Norton Gallery and School of Art. With descriptive notes by Horace H.F. Jayne. [West Palm Beach Florida]. Palm Beach Art Institute, Inc., 1972. Unpaged: [1., ii, 97 p.], illust. Paper wrap; color illust. bronze ewer on cover with title. Price $5.00. Not seen, from: G.M.Born, p 180-1. Includes archaic jades.

JAYNE, H H F, see UNIVERSITY MUSEUM, THE

JEFFRIES, DAVID

Despite the enormous popularity of the below work, and its translations, we know virtually nothing of the author save that he styles himself "jeweller" of London.

3195. -----1750

A | Treatise | On | Diamonds and Pearls. | In Which | Their Importance is considered: | And | Plain Rules are exhibited for ascertaining the | Value of both: | And The | True Method of manufacturing Diamonds. | [rule] | By David Jeffries, | Jeweller. | [double-rule] | London: | Printed by C. and J.Ackers, in St.John's-Street, | For the Author. 1750 | (Price One Guinea.)

8°: [6], iv, [16], 69, [2], [1 blank]p + [30]f bearing 30 engrav pls, 10 pictorial, the remainder columns of numbers; A^8, a^8(one f Signed "b"), B-E^8, F^4. Ca 20 x 12.5 cm(8 x 5 in). Woodcut head- and tailpcs. USGS GS 34-377; JSL; Agassiz III, 320.

Cont: tp; dedic; pref; subscriber list; explan of tech terms; tab cont; introd; text; concl; cost of cutting tab; blank p; pls.

The first book in English to describe how diamonds and pearls can be evaluated on the basis of the factors of size(or weight) and style of cut, with allowances being made in the case of diamonds where cut stones depart from the "ideal" proportions that were accepted as standard in Jeffries' time. These proportions are radically different from those now considered acceptable because they were based less on the production of maximum brilliance than on retention of the greatest amount of weight from the cutting of a typical octahedral diamond crystal. The "ideal" cut in Jeffries' time is a cushion brilliant, "old mine" cut, with the pavilion much deeper than employed in modern stones. The proportions and facet patterns are shown in the figures on Plate 1 and others following. Also shown are rose cut gems, graduated as before according to size and weight. The text explains the cutting procedure, how the evaluation rules were derived, the importance of imperfections and flaws as affecting price, notes on rough diamonds, previous authors who attempted to establish valuation rules, and finally, a somewhat similar procedure for the valuation of pearls, with highest values accorded to pearls of closest approach to spherical perfection, luster, etc. The mathematical rule used for the pearl is known as the "square of the weight" multiplied by a per-carat base price, but it should be mentioned that this rule was long established as evidenced by its explanation in Arphe De Villefane's *Quilatador* of 1572, which see, and which work is claimed to be the first to place this rule in print(Lenzen, *Qual Merkmale*, 1966, p 39, which see). Being understandable in its explanations and providing accurate tables, this work immediately won acclaim. See also remarks of R Shor, *JCK*, Feb 1984, 90-108.

3196. -----1751, 2nd edit

A | Treatise |...| By David Jeffries, | Jeweller. | [rule] | The Second Edition, with large Improvements. | [double-rule] | London: | Printed by C. and J.Ackers, in St.John's-Street, | For the Author. 1751. | (Price One Guinea Bound.)

8°: [6], viii, [1], [1 blank], 155, [2], [3 blank]p + same pls; A^8, a^8, B-L^8(last f blank). Ca 20.1 x 12.7 cm(8 x 5 in). Cut. LC 34-8260; JSL; Ward & Carozzi, 1210.

Cont: tp; dedic; pref; postscript; subscriber list; explan tech terms; tab cont; introd; text; concl; cost of cutting tab; 3 blank p; pls.

Entirely rewritten, considerably enlarged, new section on Brazilian diamonds, also on alternate methods of valuation, diamond cutting in India. It is my experience that this edition is much casier to find than the first.

3197. -----1753, abstracted

An | Abstract | Of The | Treatise | On | Diamonds and Pearls: | By Which | Its Usefulness to all who are any Ways interested in | those Jewels, will sufficiently appear; and there- | fore addressed to the Nobility and Gentry of | this Kingdom, and to the Traders in Jewels, | and Manufacturers of Diamonds. | To which is added, | A particular Account of the French King's | large Brilliant Diamond, | Together | With some Remarks upon it; | And | A Copper Plate, containing two Draughts | of its Shape, Expansion and Depth, when | rough, and wrought; and another relative | to the former. | [rule] | By the Author of that Treatise. | [rule] | London: | Printed for R.Baldwin, at the Rose in Pater- | Noster-Row. M.DCC.LII. | [Price Six-Pence.] [1752]

8°: edgesewn: blank f supplied + 32 p + engrav pl + blank f supplied; A-B^8. Pale tan, plain wrap. 17.1 x 11.5 cm(6 3/4 x 4 1/2 in). Cut. JSL; DeGolyer Coll, U Okla.

Cont: blank f; tp; dedic; tab cont of 2nd edit; "An Account of the Great Diamond;" pl; blank f.

The first portion of this interesting pamphlet, which is here described in what I believe to be its original state, is no more than an inducement to buy the second edition by explaining its virtues and detailing its contents. On the other hand, what is of far greater value is the discussion of the Pitt or Regent diamond, which Jeffries minutely describes and gives its brief history, including the price for which it was sold, how it was acquired by Pitt, etc. The plate shows two crown views of the diamond in cut form with bars representing its dimensions, a small octagon for the culet size, and a dotted profile indicating the size of the rough from which it was cut. Jeffries criticizes the cutting and offers to recut it to improve its brilliancy despite the necessary loss of weight in doing so, and inferring that only an expert, like himself, can correctly establish the best proportions. This prospectus is far rarer than any of the main work issues.

3198. -----1753, Fr edit

Traité | Des | Diamants | Et Des | Perles, | Ou L'On Considere Leur Importance, | On établit des régles certaines pour en connoître | la juste valeur, | Et l'on donne la vraie méthode de les tailler. | On y trouve aussi des Observations curieuses, également utiles | aux Négociants, & aux Voyageurs, & qui intéressant | même la Politique. | Par David Jeffries, Jouaillier. | Ouvrage traduit de l'Anglois, sur la seconde Edition | qui a été considerablement augmentée. | [orn] | A Paris, | [in curved brackets, in 2 lines:] Debure l'ainé,. l'Image Saint Paul. | N.Tillard, à Saint Benoit. | [to left of brackets:] Chez [and to right in 2 lines:] Quai des Augustins. | [double-rule] | M.DCC.LIII. | Avec Approbation Et Privilege Du Roy. [1753]

8°: [8], xxxv, [1], 104 p + 10 f bearing 10 engrav pls; pi^4, a-b^8, c^2, A-F^8, G^4 + pls, the latter folio, bound-in. Engrav head-pc; woodcut orns. Uncut copy: 21.6 x 13.5 cm(8 1/2 x 5 1/4 in). JSL; Dewalque 255; Agassiz III, 320.

Cont: 1/2tp; tp; dedic; prelim discourse; pref; pref of transl with notes on differences in the plates; explan tech terms; approb; tab cont; errata; 28 chs; cost of cutting tab; tabs of wgt vs price; pls.

This edition is the translation by Chappotin S Laurent, of the Royal Library, Paris, in which considerable differences may be noted, principally in the preliminaries, but the text itself remains faithful to the original. There is no list of subscribers and the dedication is now to Prince de Condé. The preliminary discourse generally discusses a variety of topics that others have treated in earlier works on gemstones and specific comments are made on certain books that are recommended to the reader for further study. The engraved plates of numbers of the English edition are now set in ordinary type but the pictorial plates are retained in re-engravings. Much scarcer than the second edition.

3199. -----1756, Ger transl

Abhandlung | von den | Demanten | und | Perlen, | worinnen ihr Vorzug nebst den Regeln | ihren wahren Werth zu bestimmen, untersuchet, die | rechte Methode sie zu schneiden gezeiget, und zugleich viele sel= | tene und sowohl für Kaufleute als Reisende nützlich An= | merkungen mitgetheilt

werden, | durch | David Jefferies [sic] | Jubelierern, | aus dem Englischen und Französischen übersetzt. | Mit Kupfern. | [orn] | [rule] | Danzig, | bey Georg Marcus Knoch, | 1756.

8°: [12], 106, 24 p + 10 engrav pls on 10 f, bound-in; pi^4, $*^2$, A-H^8, I + pls. Ch woodcut orns. Ca 19.7 x 11.8 cm(7 3/4 x 4 5/8 in). Cut. In some copies, the pls are tipped to blank f & folded inward. GS 34-330;JSL.

Cont: tp; dedic; tab cont; pref by Knoch; pref by Jeffries; 28 chs; cost of cutting tab; wgt vs price tabs; pls. Agassiz III, 320.

As in the French edition, the tables of weights versus price are set in type; the re-engraved plates are done rather more poorly than in the original. A translator is not named. The lengthy preface by Knoch, who may also be the translator, contains interesting comments on germane gemological literature, with much on Gersaint's *Catalogue des diverse Curiosites... de la Roque*, which work he believes to be exceptionally valuable. Some parts of Jeffries text are criticized; also carefully pointed out is the relative cost of the English and French editions with the implication that the German edition is considerably cheaper although no price is stated. Rare.

3200. -----17--(?), Sp transl Tratado de los diamantes y de las perlas, en que despues de considerar su importancia, se establecen reglas ciertas para conocer su justo valor y se dá el verdadero modo de tallar los diamantes. Tambien se hallarán en él observaciones curiosas, igualmente útiles á los comerciantes, que á los viageros y que aun interesan á la política. Por..., joyero. Obra traducida del inglés al francés por la segunda edicion considerablemente aumentada. Y al castellano, de órden de S.M., por D.Miguel Gerònimo Suarez. Not seen; from Maffei & Figueroa, 1, no 1259, who also state "Inserto en el t.XII de las *Memorias instructivas y curiosas*... ocupa desde la pág. 273 hasta la 376, con dos láminas... Forma esta obrita la Memoria CXV y corre por separado con la paginacion señalada. El titulo sintetiza perfectamente las materias que abraza este tratado."

The periodical referred to above is *Memorias Instructivas Y Curiosas Sobre Agricultura, Comercio, Industria, Economia, Chymica, Botanica, Historia natural* [etc]. Por Mig.Geròn.Suarez. Publ in 4°, 8 vols, Madrid, 1778-83, according to H C Bolton, *A Catalogue of Scient and Tech Period*, 2nd edit, 1897, p 368, no 2934.

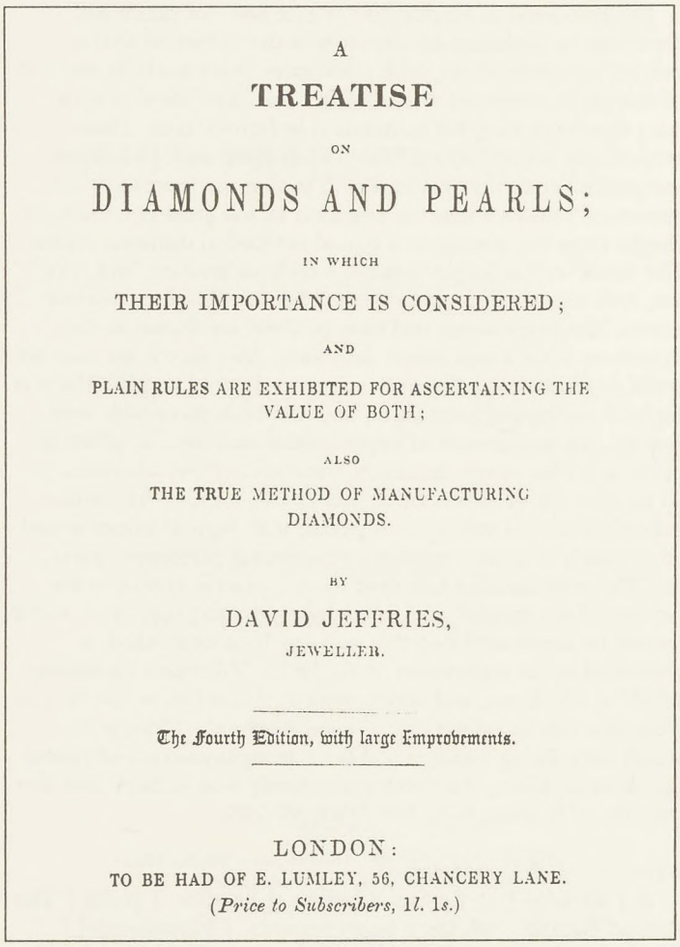
3201. -----1800, 3rd edit

A | Treatise | On | Diamonds And Pearls. | In Which | Their Importance Is Considered; | And | Plain Rules Are Exhibited For Ascertaining | The Value Of Both; | And The | True Method Of Manufacturing Diamonds. | By David Jeffries, Jeweller. | [rule] | The third Edition, with large Improvements. | [double-rule] | London: | Printed By C.Clarke, Northumberland-Court, Strand, | For R.Lea, Greek-Street, Soho, | And J.Nunn, No.48, Great Queen-Street, | Lincoln's-Inn Fields. | MDCCC. | (Price 7s.6d. in Boards.) [1800]

12°: xiv, [2], 116 p + p 117 & p 118, both paged recto only and each on separate leaf + viii(advert)p; a^8 A-E^{12}; 30 engrav pls bound-in at end of text(10 of cut gems, 10 of tables), and followed by viii advert p. Some copies lack adverts. Printer's blue-gray paper bds, brown paper spine with print title label. 19.4 x 11.5 cm(7 5/8 x 4 1/2 in). Uncut. GS 24-332. JSL.

Cont: tp; dedic; pref; [insert of bks sold by publ, sewn-in between p viii and p [ix] of front matter in some copies; other copies have this section bound-in before the plates or after them]; postscript; explan tech terms; introd; text; 2 tabs(p 117, 118); pls; advert.

Unaltered printing of the second edition.



A

TREATISE

ON

DIAMONDS AND PEARLS;

IN WHICH

THEIR IMPORTANCE IS CONSIDERED;

AND

PLAIN RULES ARE EXHIBITED FOR ASCERTAINING THE VALUE OF BOTH;

ALSO

THE TRUE METHOD OF MANUFACTURING DIAMONDS.

BY

DAVID JEFFRIES,

JEWELLER.

The Fourth Edition, with large Improvements.

LONDON:

TO BE HAD OF E. LUMLEY, 56, CHANCERY LANE.

(*Price to Subscribers, 1l. 1s.*)

3202. Jeffries' treatise on diamonds, first published in 1750, was reprinted in cheap versions, the one shown here in 1871

3202. -----1871, 4th edit

A | Treatise | On | Diamonds And Pearls, | In Which | Their Importance Is Considered, | And | Plain Rules Are Exhibited For Ascertaining | The Value Of Both; | And The | True Method Of Manufacturing Diamonds. | By David Jeffries, | Jeweller. | [rule] | The Fourth Edition, corrected to the present time. | [rule] | London: | W.L.Molyneux, 127, Strand. | MDCCCLXXI. | [rule] | Price - Subscribers, 7/6; Non-subscribers, 10/6. [1871]

12°: xxiii, [1 blank], 96 p + 30 pls on 30 f, lithographed after the orig engrav pls. Dk green cloth, gold lozenge in single-rule frame on cover; gold lett, rules on spine; single-rule blind frame on back cover. Pale yellow endp. 17.4 x 10.6 cm(6 7/8 x 4 1/8 in). Cut. GS 33-251. JSL.

Cont: tp; orig dedic; pref; postscript; tab cont; introd; pref to this edit; text; tabs; pls.

Thomas Weeks Holmes preface: "This treatise... has been re-printed in its entirety... exactly the same as in the original edition. The lapse of time led to many changes in prices, &c.,

thereby necessitating careful revision; and emendations, to suit the present value of Diamonds, have been given at the foot of the pages, so that the past may readily be contrasted with the present." The prices mentioned are footnoted, along with numerous other remarks, but the figures in the tables are not changed. Holmes was editor of the *Goldsmith* magazine and his comments are valuable.

3203. -----18--(?), another edit

A | Treatise | On | Diamonds And Pearls; | In Which | Their Importance Is Considered; | And | Plain Rules Are Exhibited For Ascertaining The | Value Of Both; | Also | The True Method Of Manufacturing | Diamonds. | By | David Jeffries, | Jeweller. | [rule] | The Fourth Edition with large Improvements. | [rule] | London: | To Be Had Of E.Lumley, 56, Chancery Lane. | (Price to Subscribers, 1 *l.* 1s.) [nd, probably after 1871]

12°: xvi, 116 p; front pl tip-in + pls 2-30 bound-in between p [4]- [5](p [4] is blank). Blue cloth, multiple frames enclosing oval floral frame in center of covers, blind-stamped; gold lett, ornate wreaths on spine with blind rules. Pale yellow endp. 18.8 x 10.9 cm(7 3/8 x 4 1/4 in). Te uncut, others trimmed. JSL.

Cont: 1/2tp; pl; tp; dedic(to the Queen!); pref; postscript; explan of tech terms; tab cont; introd; blank p; pls 2-30; text; conclusion.

While resembling the 4th edition, it has been prepared by a different publisher and the contents are drastically re-arranged. The explanation of technical terms omitted in the previous edition(despite its claim to completeness!) is here restored. The plates are much different, being little more than crudely-drawn pen-and-ink sketches of the originals, reproduced in lithography, with the first plate brought up to serve as frontispiece. No explanation of this edition appears anywhere. A later reprint of same in purplish-brown cloth with a broad frame ornamented with fleur-de-lis blindstamped on both covers; title in gold, with gold rules and orn extending along the length of the spine. Page smaller: 18.1 x 10.4 cm(7 1/8 x 4 1/8 in). Te uncut; pale yellow endp.

3204. JENKS, CHARLES W

A Paper | On | Corundum And Its Gems, | Read Before The | Society Of Arts, Technological Institute, | December 14, 1876, | By Charles W.Jenks. | [rule] | Boston: | Press Of John Wilson And Son. | 1877.

Centersewn: 17, [3 blank]p. Pale gray print wrap, edges of pamphlet stained red. 19.2 x 12.7 cm(7 1/2 x 5 in). Cut. JSL.

Highly interesting, rambling essay on corundum, its history, where it was obtained in antiquity, uses for abrasives and for gems, gem varieties, occurrence in North Carolina, gems from this state, large crystals, and expressions of interest by various persons in the North Carolina deposits. Colonel Jenks, owner of a corundum-producing deposit in the state, is mentioned in various accounts, vide, Kunz, 1890 & 1907, and Pratt, 1901, 1906. A very rare paper.

JENNEY, W P, see WARD, L F, 1899, also et al, 1900

JENNINGS, J D, see KIDDER, A V, et al

3205. JENSEN, J Bernsteinfunde und Bernsteinhandel der jüngeren Bronzezeit Dänemarks. *Acta Archaeologica*, København, 36, 1965, 43-86. Not seen: from G R v Bock, 1981, 176.

3206. JENSEN, K D Vorkommen und Genesis der zentralindischen Diamanten. *N Jb Min*, Abt A, H 3, 1957, 49-67. Not seen.

3207. JENTSCH, CASPAR, also KASPAR GOTTHOLD

Dissertatio Physica-Historica | De | Gemmis, | Qvam | Sub Auspiciis Divinis, | Indultu Amplissimi Collegii Philosophici, | in celeberrima Plissina | ad d.II. Jun. A.O.R. MDCCVI. | H.L.Q.C. | Placido Eruditorum Examini | publicè subjecit | Praeses | M. Caspar Gotthold Jentsch/ | Budissa Lus. | Respondente | Simone Bockelmann/Hamburg. | [rule] | Lipsiae. Literis Viduae Brandeburgeri. [1706]

4°: 24 p; A-C^4; ch orn. 18.8 x 15.3 cm(7 3/8 x 6 in). Cut. USGS Kunz Coll. Cont: tp; pref; 4 chs; annex. Not further examined.

JENTSCH, KARL ALFRED(1850-)

Ger geologist; PhD U Leipzig 1872; Prussian Geol Survey 1875; prof U Königsberg & dir provincial mus 1889. Pogg 4, 703.

3208. -----1892

Führer | durch die | Geologischen Sammlungen | des | Provinzialmuseums | der | Physikalisch-Oekonomischen Gesellschaft zu Königsberg | bearbeitet vom Direktor | Prof.Dr.Alfred Jentsch. | [wavy rule] | Mit 75 Textabbildungen und zwei Tabellen | enthaltend eine | Uebersicht der Geologie Ost- und Westpreussens. | [litho fossil vignette] | Königsberg in Pr. | In Kommission bei Wilh. Koch. | 1892.

8°: 106 p; 75 fig(fossils & sections), 2 fold tab tip-in at end. Pale gray wrap, title in orn frame on front cover. 22.3 x 14.5 cm(8 7/8 x 5 3/4 in). JSL.

Cont: tp; fwd; text; fold tabs.

The geological collection in the Provincial Museum in Königsberg, Prussia is described according to rooms which are themselves ordered by chronology. Zimmer III, p 38-79, is devoted to the Tertiary and includes the amber which occurs in Baltic formations of this age. The text describes geology, fossils, sequences, cross-sections of strata, other types of resins besides amber, insects in amber, and many amber specimens of various types. There is much incidental information on amber mining, qualities, prices, etc. The folding tables give the chronological summary of the formations, their nature, thickness, and fossils found of East and West Prussia, and the animal & plant life arranged according to the then accepted taxonomical system. An important record of a collection of amber that was largely destroyed during World War II.

3209. JENYNS, SOAME

Chinese Archaic Jades | In The British Museum | By Soame Jenyns | Deputy Keeper in the Department of Oriental Antiquities | Published By | The Trustees Of The British Museum | 1951 [London: Lund Humphries]

4°: xxxviii, [2]p + [20] bound-in f bearing 40 photo pls. Spine dk green cloth, gold lett; pale bluish-green paper over bds. Pale green heavy paper dj with black lett on front n spine, 24.8 x 18.5 cm(9 3/4 x 7 1/4 in). Cut. JSL.

Cont: tp; publ data; pref; 4 chs; notes & refs; descriptions of pls; pls tp; pls.

Describes outstanding examples from Euformopolous, Raphael, and Oppenheim collections which form the basis for discussion of jade properties, occurrences, religious significance, classical references to jade, dating, dynastic jades, ritualistic uses. Several hundred specimens are shown upon the plates, but the latter are somewhat blurry because of non-glossy paper. Extensive notes embodying valuable information should have been better placed in the text rather than isolated as they are, to the annoyance of the reader. Rev B Z Seligman, *Man*, 52, 1952, 56-60; S H Hansford, *Bull School Orient & Afr Studies*, 15, pt 2, 1953, 405-6; M Sullivan, *Burlington Mag*, 96, 1954, 219. Comment by G M Born, 181-2.

3210. -----195-(?) The Chinese rhinoceros and Chinese carvings in rhinoceros horn. *Trans Orient Cer Soc*, London, [post 1856], p 31-62, Pls 15-26. JSL. Originally a lecture before the society; discusses antiquity of several species of rhinoceros in Asia and Africa, identifies those found in Asia, particularly in China, and describes origin of superstitions concerning the magical and curative powers attributed to the horn, and the types of objects, mostly cups, made from the horn. Fine plates with very many examples shown.

3211. JENYNS, SOAME, R & WATSON, WILLIAM

Chinese Art | The Minor Arts II | Textiles · Glass and painting on glass · Carvings in ivory and | rhinoceros horn · Carvings in hardstones · Snuff bottles · Inkcakes | and Inkstones | by R.Soame Jenyns | with the editorial assistance of William Watson, F.S.A. | Universe Books · Publishers · New York | [underline] | [orn] [1965]

P [4]; "First American Edition... 1965... The Universe Library Of Antique Art."

8°: 323, [1]p, 65 col photo cut-outs tipped-on to text f; 149 text ill(some multiple, some ill f tipped-in or bound-in, but all includ in pag). Pale tan, coarse wove natural finish cloth; sepia lett spine. Col plasticized dj, col photos, resume, other publ bks. 33 x 25.2 cm(13 x 9 7/8 in). Cut. $39.50. LC 60-12415. Plain cardbd slipcase. JSL.

Cont: ser tp; tp; publ data; tab cont; introd & notes; 6 chs; photo credits; publ data.

Of interest to the gemologist: Ch 3, 157-232, on ivory, rhinoceros horn carvings, but including illustrations of coral and amber carvings, Ch 4, 233-94, hardstone carvings, and Ch 5, 295-304, snuffbottles, many of gemstones. Each chapter is supplied with numerous color photo plates, all with detailed captions and numerous references to other authors. In Chapter 3 are also to be found illustrations of carved and inset nacre and one example of kingfisher-featherwork. By far most illustrations are really excellent but a few did not meet Jenyns approval and he objects to them. In terms of gemological authority, Jenyns could have used an outside criticism, eg, p 240, smaragdite is called a "poor relation to the emerald," when indeed it is not related at all, while an obvious Italian goldstone glass, Fig 172, is stated to be an aventurine or a "laminated glittering brown mica" mined in China. Most of the hardstone carvings seem to be of ordinary quality although a few are fine and most appear to be recently carved. A splendid "coffee-table" book with much to commend it.

3212. JEQUIER, GUSTAVE Cachets et cylindres archaïque. Mém de la Delegation en Perse, 8, 1905, 2-27. Not seen.

JERNIGAN, E WESLEY

USA prof art; PhD U Arizona & recipient Comins Award and U Ariz Research Award; prof art in the university.

3213. -----1978

Jewelry | Of The | Prehistoric | Southwest | E.Wesley Jernigan | School Of American Research | Santa Fe | University Of New Mexico Press | Albuquerque [1978; "Southwest Indian Arts Series"]

8°: xii, [1], [1 blank], 260, [6 blank] p; glossy col front pl tip-in; 16 col photos on 8 glossy double-f tip-in; 101 fig(line drawings, maps, chart). V pale tan-white, flecked, unfin cloth, green spine title & shells on front cover; pale gray-green endp; green dj, flap resume, price, vita. 25.4 x 20.3 cm(10 x 8 in). Cut. $24.95. LC 77-89436; ISBN 0-8263-0459-1. JSL.

Cont: ser tp; other ser bks; 1/2tp; ackn; front; tp; publ data; tab cont; pls list; fwd; pref; text tp; 8 chs; biblio(p 247-56, 182 entries); index; 3 blank f.

Studies jewelry & cultural implications thereof as manifested in the productions of the three major Indian cultures of the Southwest: Hohokam, Mogollon & Anasazi, with much on materials used, sources, trade routes, lapidary work, styles, etc. Typical materials: various shells, abalone, argillite, sandstone, slate, steatite, galena, hematite, mica, pyrite, selenite, and turquoise. Jet is also treated at considerable length, esp in Ch 5. Handsome illustrations: line drawings of jewelry pieces, methods of work, map of trade routes.

3214. JERRARD, R A

The | Amateur | Lapidary | [rule] | A Practical Guide To | Cutting And Polishing | Semi-Precious Stones | And Pebbles | [rule] | R.A.Jerrard | D.Bradford Barton Ltd. [Truro, Cornwall; 1969]

8°: 88 p; 40 line drawings, 4 photos on 2 glossy bound-in f. Pale gray, speckled paper over bds, gold lett spine; black dj, col bands & lett; resume, other bks, flaps and back. V pale bluish gray endp. 21.5 x 13.5 cm(8 1/2 x 5 3/8 in). Cut. £ 1.25 or 25s. JSL.

Cont: 1/2tp; tp; publ data; tab cont; dedic; ackn; 20 chs; index.

Dj: "This book is the first to be published in Britain that covers the three main aspects of lapidary work for the amateur - machines, cutting and polishing, and the uses to which the polished stones may be put." However, the text is introductory in nature, no great amount of detail being provided on any aspect, merely enough to induce interest and enable some simple work to be done. Clearly written and throughout stresses making one's own machines and devices. Very good illustrations by the author. The kinds of work treated are cabochons and flats, made by hand or with machine assistance, lapping and drilling, but faceting only touched on, and the reader advised to go elsewhere for details. There is also a very short chapter on making very simple jewelry for cabochons, and a brief chapter on United Kingdom hall-marking practises. The final chapter is a glossary, and a few books for further reading are mentioned as well as a list given of British lapidary societies and suppliers. On the whole, a very good introduction. Rev *J Gemm*, 13, 5, 1973, 190; *Gems*, 2, 3, 1970, 29.

3215. JERVIS, WILLIAM PAGET(1831-1906)

The Mineral Resources | Of | Central Italy: | Including | Geological, Historical, And Commercial Notices | Of The | Mines And Marble Quarries; | With A Supplement, | Containing | An Account Of The Mineral Springs, | Accompanied By The Most Reliable Analyses. | By W.P.Jervis, | Conservator Of The Royal Italian Industrial Museum At Turin; | Member Of The Royal Academy Of Sciences At Palermo, Etc.; Chevalier Of The Order Of | Sts. Maurice And Lazarus. | [rule] | London: | Edward Stanford, 6 Charing-Cross. | 1868. | [rule] | Price Five Shillings.

8°: [8], 132 p + 12 fold statistical tabs(1 double); engrav front ill + 14 engrav ill(2 maps, some ill fullp). 22.4 x 14 cm(8 3/4 x 5 1/2 in). Cropped. BM(NH); GS 18-72.

Cont: 1/2tp; front; tp; pref; map; ref to map; tab cont; 15 chs; index; suppl; index to min springs & errata; fold tab.

Chs I-III, to p 28, are devoted to marbles, alabasters, and other ornamental and structural stones of Central Italy, giving notes on the deposits, the special features of the stones, and with comments on the ancient uses of same and structures that still exist in which these stones were used.

3216. -----1873-89

I Tesori Sotteranei | Dell'Italia | Descrizione Topografia e Geologica di tutte le località nel Regno d'Italia in cui rinvengonsi Minerali, |...[3 lines]...| Repertorio D'Informazioni Utili |...[2 lines] ...| Per | Guglielmo Jervis |...[3 lines of honors, offices]...| [rule] | Parte Prima[-Quarta] | [rule] | Regione Delle Alpi[-other regions] | [rule] | Roma-Torino-Firenze | Ermanno Loescher | 1873[-1889; in 4 vols]

8°: I: XV, [1 blank], 348, [4 advert]p; II: XVIII, [1], [1 blank], 624 p; III: XXII, [1], [1 blank], 538, [1 blank]p. Part 4 and vol 4 described as follows:

Parte Quarta | (Completa in sè) | Geologia Economica Dell'Italia | Illustrazione delle Pietre da Costruzione da Taglio, da Ornamente, | quelle per la Scoltura, l'Intarsia, ecc. | Impiegate, der Fenici, dei Greci, | degli Egiziani e dei Romani. | [orn rule] | Torino | Ermanno Loescher |... [2 double-column lines]...| 1889.

8°: XXXVI, 516, [3], [1 blank], [4 advert]p; front litho pl tip-in; 61 wood engrav; [10] wood engrav on 2 f following index. Yellow wrap, cover title with adverts on back cover. 24.3 x 15.7 cm(9 5/8 x 6 1/8 in). Cropped. Lire 15. BM(NH).

The complete work treats the minerals and their deposits in three regions: Alpine, Appennine, and the islands, with the fourth volume giving economic geology for the entire nation. The first part of this volume is a history of of stone & its uses, including gemstones, in structural, ornamental, personal adornmental, inlay and mosaic applications, from antiquity to the present. Jervis cites numerous authorities to demonstrate that such materials were of supreme importance in the development of civilization among the Etruscans, Phoenicians, Greeks, Egyptians and Romans. The materials included ordinary and decorative rocks, including sedimentary types, marbles, albasters, schists, gneisses, serpentines, various volcanic rocks, and others of massive nature, but also treating many varieties of chalcedony & agate as as well as a few other gemstones. There are several hundred localities given with short notes on geology, type deposit, exploitation, and other facts of interest but it is necessary to consult the index(by materials) to discover which localities provided a specific material.

3217. -----1905

The Minerals and Metals Mentioned in the | Old Testament. | Their Paramount Influence On The Social And | Religious History Of The Nations | Of Antiquity. | By | Chev. W.P.Jervis, F.C.S., | Member of the Italian Geological Society, Rome; late Consevator of the | Royal Italian Industrial Museum, Turin. | [rule] | Being A Paper Read Before The Victoria Institute. | [rule] | Author's Copy.

Reprinted from: *Victoria Inst Trans*, London, Mtng of Monday, May 22nd, 1905, or *Philosophical Society of Great Britain, Journal of the Trans*, 37, 1905, 259-82.

8°: [1]f supplied + 24 p. Pale tan wrap, cover title. 21.7 x 14.1 cm(8 1/2 x 5 1/2 in). Cut. USGS Kunz Coll, GS 34-782; JSL.

Includes gemstones, giving for each the Hebraic and Greek names, and his speculations on their identities and symbolism of each. Other minerals treated include flint, salt, sulfur, metals.

3218. JESSUP, EDWARD

Edward Jessup | Ernest Oppenheimer | A Study in Power | Rex Collings London 1979

8°: [7], [1 blank], 357, [3 blank]p; 15 photos on 8 glossy bound-in f(betw p 328-9, not includ in pag); 3 sketch maps; 2 family tree diagrs; 3 document facs. Bright red cloth-type paper over bds; gilt spine title; col dj & flap resume. 22.6 x 15.1 cm(8 7/8 x 5 7/8 in). Cut. ISBN 0 86036 087 3. £ 12.95. JSL.

Cont: 1/2tp; tp; publ data; tab cont; ill list; text in 4 "volumes" (7, 17, 5, 8 chs); appends; biblio(p 343-4, 22 bks, 16 company rpts, 9 period; 11 misc); ackn; index; 3 blank p.

A remarkably detailed study of Ernest Oppenheimer from childhood to his demise in 1957 at age 77, along with studies of other members of the family, associates, etc. The first "volume" takes up Sir Ernest's career in his youth and early manhood, especially in connection with the diamond industry and his participation in the De Beers organisation. The second volume contains a great deal of incidental information on diamond mining and the trade, particularly in South West Africa, also much on gold mines of the Rand. The third volume discusses the huge copper-mining ventures in Northern Rhodesia, while the last volume deals with further gold mining ventures and the closing stages of Ernest's career.

JESTAZ, B, see ALCOUFFE, D

3219. JEWELERS' CIRCULAR

The Famous | Diamonds | Of The World. | [orn] | Copyright, 1896, by | The Jewelers' Circular Publishing Co., | No.189 Broadway, | New York.

Centerstapled: 32 p, 13 fig. Pale green glossy wrap, elaborately dec title with ill of a maiden holding aloft a cut diamond(on front cover). 13 x 10 cm(5 1/8 x 4 in). Cut. USGS Kunz Coll, GS 34-846.

Cont: tp; introd; text. Issued and sold by the magazine to jewelers for imprinting with firm name and as an advertising gift to customers; there is a blank panel on cover for this imprint. Briefly described, and illustrated: Koh-i-noor, Regent, Star of the South, Hope, Sancy, Shah, Excelsior, Mattam, Nassak, Orloff, Pigott, Florentine, Imperial(or Victoria), Cumberland, Polar Star, Eugénie, Pasha of Egypt, and several others.

3220. -----1906

Gems and Precious Stones | A Tabular Arrangement of Their Characteristics and Localities | with some | Tests and Literature on the Subject | Published by | The Jewelers' Circular Publishing Co. | 11 John Street, New York | [rule] | Copyright, 1906, | by | The Jewelers' Circular Publishing Co.

Centersewn: [1 blank]f + [2], 30 p + [1 blank]f; 7 fig, 15 famous diamond sketches on p 25. Dk red cloth, gold title in rect box on cover. 16.4 x 21.6 cm(6 1/2 x 8 1/2 in). Oblong. Also in dk maroon, textured paper wrap, flush cut, same p size. USGS Kunz Coll, GS 34-258. JSL.

Cont: blank f; tp; tab cont; text; blank f. Essentially contains two important contributions: Leopold Claremont's "Characteristics and localities of the principle precious stones," p [1]-9, as a table previously published in the magazine, Feb 5, 1902, and E Hopkins' "Tests for precious stones," p [11]-22, from the same magazine, Sept 12, 1906. The remainder is entitled "Miscellaneous" and contains a list & illustrations of famous diamonds, poetry of gems, birthstone lists, weekday gems, meaning of gems, birthday remembrances, zodiacal signs, anniversaries, and lists of flowers!

3221. -----1911 edit

Gems and Precious Stones |...| Copyright, 1911, | by | The Jewelers' Circular Publishing Co.

Centersewn: [2], 30 p; 7 fig; same diamond ill but plus 2 photos of Cullinan; loose f ahead of p [1] lists birthstones approved by the American National Retail Jewelers' Association. Dk maroon wrap. 16.4 x 22.3 cm(6 1/2 x 8 3/4 in). Oblong. Cut. Flyleaves omitted. JSL.

3222. JEWELERS' CIRCULAR-KEYSTONE [Special Numbers]

The Growing Desire For Diamonds... a hundred years after the discovery of diamonds in South Africa. JCK, 136, 7, pt 2, Apr 1966, 172 p, many ill, some col. Ordinary issue in col wrap; hard cover with same wrap pasted over front board; gold lett spine. 32.7 x 27.6 cm(14 7/8 x 10 7/8 in). Cut. JSL. There are 32 articles on the history of diamonds, diamond mining industry, properties & origin of diamond, diamond in culture & jewelry, cutting, famous diamonds, diamonds from sea floor, aspects of the trade, sources of rough, coloration, and others, and all forming an excellent overview of diamond at that time.

3223. -----1972 Treasure From Land, Sea & Lab[oratory]. 143, 1, Oct 1972, pt 2, 131, [1]p, many ill. In paper & cloth as above. JSL. Seventeen articles on trade in colored gemstones(with some statistics), unique gems, gem testing, inclusions in gems, cutting, American gemstones, synthetics, treated gems (by coloring, irradiation, etc), curious lore, pearls. Rev *G & G*, 14, 4, 1972-3, 127.

3224. -----1976 The New World Of Gems. 147, 1, Oct 1976, pt 2, 132 p, many ill, many in color. In paper & cloth as above. JSL. Contains 25 articles generally addressing the theme "Gem sources - changes and challenges," covering production in the several continents, also in the Soviet Union and the United States, and also with articles on diamond, pearl, tanzanite, thievery, diamond in Arkansas, and others.

3225. JEWELRY ANCIENT TO MODERN

Jewelry | [rule] | Ancient to Modern | [col photo] | A Studio Book | The Viking Press | New York | in cooperation with | The Walters Art Gallery, Baltimore [1979; p [5]: "Edited by Anne Garside"]

8°: 255, [1 blank]p (first f blank); 115 col photos; 522 b&w photos; 12 line drawings. Dk red cloth, dull red endp; gilt spine title; col dj with col photos both covers, resume, note. 30.4 x 22.7 cm(12 x 9 in). LC 79-19527; ISBN 0-670-40697-x. $35.00 JSL.

Cont: blank f; tp; publ data; ackn; tab cont & credits; col photo; fwd; gloss; text; biblio(last p, 65 entries).

The foreword, by Richard H Randall, Jr., director of the Walters Art Gallery in Baltimore, provides a brief life of benefactor Henry Walters (1848-1931), railroad executive and ardent collector of art, objects of art, and jewelry. The collection began with Henry's father, William Thompson Walters(1820-1894), but was enormously enlarged to the point where a special building was erected in Baltimore to house the objects. Upon Henry's death, the building and contents were willed to the City of Baltimore. In the present work, essentially a descriptive catalog of over 700 selected specimens, each section, prepared by a specialist, and each liberally supplied with excellent photographs, depicts jewelry and small objects of ornament from ancient lands as Egypt and the Near East extending into the Victorian era and terminating in the Art Nouveau period. Gemstones are everywhere represented, especially in numerous engraved gems as well as settings in many types of jewelry mountings. For the historian interested in correlating the use of gemstones in jewelry of various periods and cultures, the present work is invaluable as a reference.

JEWELS PAGEANT, see JUWEELENSTOET

3226. JEŽEK, B

Aus Dem Reiche | Der Edelsteine. | Von | Dr.B.Ježek. | Privatdozent an der böhm. Universität, Adjunkt des | Museums des Königr.Böhmen. | Mit 8 Bilderbeilagen und 8 Textfiguren. | [rule] | Prag 1914. | Verleger E.Weinfurter Buchhändler [title in single-rule frame]

8°: edgesewn: 171, [1 blank], [1], [3 blank]p; front glossy pl + 7 others; 8 text fig. Thick pink wrap, cover title in black & red with publ & date. 19 x 13.8 cm(7 5/8 x 5 3/8 in), Uncut, untrimmed. Wraps slightly overlap text. BM(NH).

Cont: pl; tp; pref; text; blank p; tab cont; 3 blank p.

Preface: "Since October 1912 I have published a series of articles in the Prague daily newspaper "Union" which treat of a broad range of chapters on gemology. For the purpose of making a gathering together notable, I have here reprinted word for word 13 articles in the order of their publication as well as provided a few text figures and illustrations as inserts."

The articles treat radium & gemstones, synthetics, the Bohemian garnet, Turnau school of gem cutting, synthetic diamonds, Bohemia's gemstones in the last 300 years, Bohemian gemstones, the gem collection in the Museum of the Kingdom of Bohemia, Bohemian chrysolite, metric carat, and older notices of Bohemian gemstones in the literature, p 125-141, the first notice being about Kaiser Karl IV who covered the walls of St Wenzel's Chapel in Prague and the holy rooms in the Karlstein

Castle with polished plates of Bohemian gemstones; this appeared in a journal dated 1847. The last article in this series is about large and famous diamonds. A rare work.

3227. JICKELI, C F Die Fischerei, insbesondere die Perlenfischerei auf Dahlak. *Verhandl u Mitt d Siebenbürgischen Vereins f Naturwiss zu Hermannstadt*, 57, 1907(1908), 43-68. Not seen.

3228. JIMBO, KOTORA Notes on the minerals of Japan. *J Coll Sci, Imper U Japan*, Tokyo, 11, pt 3, 1899, 75 p; not seen, from C F Kunz, "Precious Stones" ch, *21st Ann Rpt USGS for 1899*, 1901, pt 4, p 456-60. Briefly describes occurrences of crystallized quartz, chalcedony & agate, corundum, opal, chrysoberyl, topaz, tourmaline, garnet, beryl, but obviously little is of gem quality.

3229. J.K.SMIT & ZONEN J.K.Smit & Zonen, Amsterdam, 1888-1938. Not seen: from J Daniel Willems, Chicago, catalog of 1970, "The 50-year Jubilee Book of the firm... truly unusual and indovidualized report in depth on all phases of the diamond industry... Diamonds in America, drilling for diamonds in Canada, technology of diamond working, etc.etc." 205 pp, 65 ills, 9 x 11 in, 1938.

3230. JOANNON DE SAINT LAURENT

Description | Abregée | Du Fameux | Cabinet | De | M^r^ Le Chevalier | De Baillou, | Pour Servir A L'Histoire Naturelle | Des | Pierres Précieuses, | Métaux, Minéraux, | Et Autres Fossiles. | Par Joannon De S.Laurent. | [orn] | A Luques, MDCCXLVI. | Chez Sauveur & Jean-Dominique Merescandoli. | [rule] | Avec permission des Supérieurs. [Lucca, Italy, 1746; title in red & black]

4°: [1 f title supplied] + VIII, 156 p; pi, +^{4},A-T^4, V^2. There is also a titlep in red & black concerning a universal treatise on precious and other stones by Baillou cemented to a hinge to face p 149; it bears no place nor date but is described on p 149-55 and appears to be a prospectus for a proposed work, which, so far as I can ascertain, never appeared; 3 facs pls. Ch orns. 22.3 x 16.3 cm(8 3/4 x 6 1/2 in). Cut. USGS Kunz Coll, GS 34-437.

Cont: tp; dedic; pref; description of Baillou's cabinet; plan for a proposed work with titlep; tab cont.

Baillou was director-general of the gallery of the Grand Duke of Tuscany. Among the contents of his cabinet were corals, petrified woods, amber, alabaster, marbles, jaspers, chalcedonies, stones to which magical or medicinal virtues were attributed, crystals, precious stones in matrix, cut gemstones, and falsified gemstones.

3231. -----1747 Description et explication d'un camée de lapis-lazuli fait par Louis Siries, ou lettres de deux amis sur diverses productions de l'art, avec des notes. On a joint à la fin du livre la description d'un camée en onyce travaillé fort singulierement.Florence: De l'Imprimerie à l'Enseigne d'Apollon. [2], xiii and 203 pp, pl, 8vo, 1747. Not seen: Mariette, *Traite pierres gravées*, 1, p 422-5, 464.

3232. -----1751 Dissertazione sopra le pietre preziose degli antichi, e sopra il modo con quel furono lavorate. *Saggi, Dissert Acad di Cortona*, vols v,vi, 1751; not seen. C W King, *Antique Gems and Rings*, 1, 1872, p 468: "a copious treatise upon the true nature of the gems used by the ancients in their glyptic works, giving a good view of the subject... Part II. treats at length upon the ancient modes of working stones, marbles, and gems."

3233. JOBBINS, E ALAN Opal in Piaui State, Brazil. *Zs Dt Gemm Ges*, 29, 1/2, 1980, 40-54, 8 fig(2 maps). Newly-discovered deposits of precious opal described; mostly milky opal, some excellent in quality.

JOBBINS, E A, see BERRANGÉ, J P; also GT BRIT. LONDON. VICTORIA & ALBERT MUS.

3234. JOBBINS, E ALAN & BERRANGÉ, J P The Pailin ruby and sapphire gemfield, Cambodia. *J Gemm*, 17, 8, 1981, 555-67, 6 col photos, map, fold map insert. See also the larger, formal report under BERRANGÉ & JOBBINS.

3235. JOEL, STANHOPE & MAYER, LLOYD

Ace Of Diamonds | The Story of Solomon Barnato Joel | by | Stanhope Joel | as told to | Lloyd Mayer | Frederick Muller Ltd. | London [1958]

16°: 228 p; tip-in photo front glossy pl + 8 photos on 2 tip-in glossy f. Dull black cloth-type paper over bds; gold lett spine. Col dj, resume. 19.7x 13 cm(7 3/4 x 5 1/8 in). Cut. Te stained pale red. 18/-. JSL.

Cont: 1/2tp; front; tp; publ data; tab cont; ill list; prolog; 9 chs; biblio(p 217-9, 38 entries); index.

Informally-written biography of S B Joel who came to South Africa at the insistence of his uncle, Barney Barnato, and remained to work in and eventually head the diamond syndicate. Some important events in the history of the syndicate are related, particularly how it came into being through the efforts of Joel and how he was instrumental in guiding it through several severe financial crises. Stanhope Joel was Solomon Barnato Joel's son.

JOHN, JOHANN FRIEDRICH(1782-1847)

Ger medical dr & prof chem & pharmacy in Berlin, Frankfurt, Moscow; wrote chem, nat hist & technological treatises. Pogg I, 1197-8.

3236. -----1816

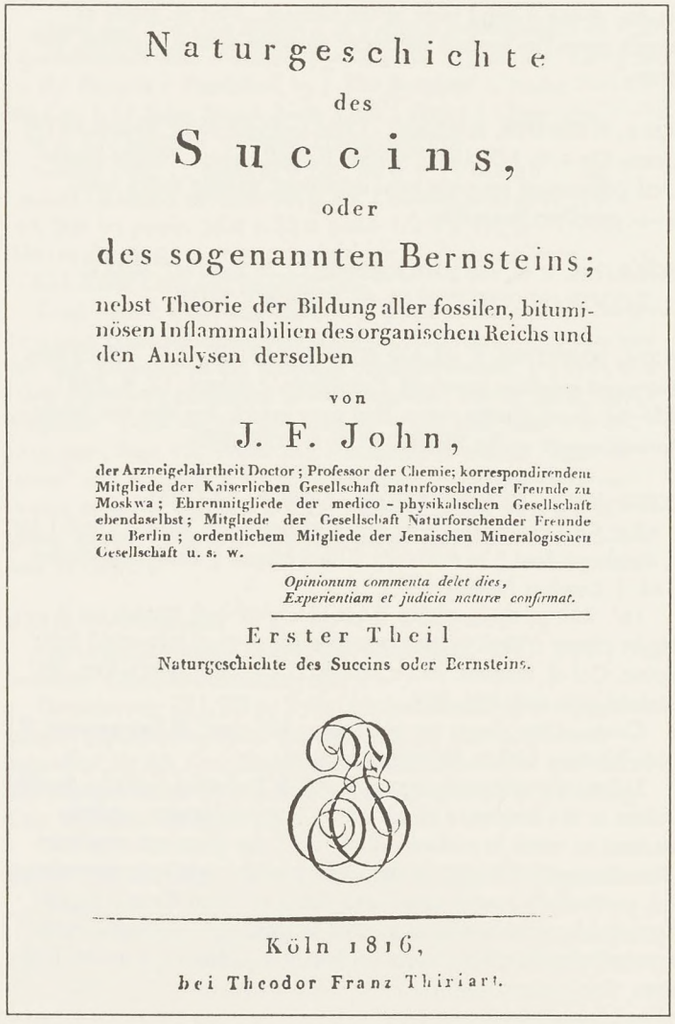
Naturgeschichte | des | Succins, | oder | des sogenannten Bernsteins; | nebst Theorie der Bildung aller fossilen, bitumi- | nösen Inflammabilien des organischen Reichs und | den Analysen derselben | von | J.F.John, | der Arzneigelahrtheit Doctor; Professor der Chemie; korrespondirendem | Mitgliede ...[6 lines of credentials, etc]...| [rule] |...[Latin quot of 2 lines]...| [rule] | Erster Theil | Naturgeschichte des Succins oder Bernsteins. | [logo] | [orn rule] | Köln 1816, | bei Theodor Thiriart.

Title to 2nd part identical but reads below the Latin quotation: "Zweiter Theil | I. Von den bituminösen Körpern im Allgemeinen. | II. Von einigen Pflanzensäften heutiger Vegetationen."

8°: XVIII, 438 p; VI, 120 p. 19.9 x 12.4 cm(7 7/8 x 4 7/8 in). Cut and cropped. LC 6-7258. JSL.

Cont: I: tp; dedic tp; dedic(occupies 2 f, script letterpress); pref; tab cont; 5 sections(each with 3 to 5 chs). II: tp; tab cont; 2 sects(3 & 5 chs); concl.

By far the best work written on amber in the 19th century, marking the transition from a period of fable and speculation



Naturgeschichte

des

Succins,

oder

des sogenannten Bernsteins;

nebst Theorie der Bildung aller fossilen, bituminösen Inflammabilien des organischen Reichs und den Analysen derselben

von

J. F. John,

der Arzneigelahrtheit Doctor; Professor der Chemie; korrespondirendem Mitgliede der Kaiserlichen Gesellschaft naturforschender Freunde zu Moskwa; Ehrenmitgliede der medico-physikalischen Gesellschaft ebendaselbst; Mitgliede der Gesellschaft Naturforschender Freunde zu Berlin; ordentlichem Mitgliede der Jenaischen Mineralogischen Gesellschaft u. s. w.

Opinionum commenta delet dies,
Experientiam et judicia naturæ confirmat.

Erster Theil

Naturgeschichte des Succins oder Bernsteins.

Köln 1816,

bei Theodor Franz Thiriart.

3236. By far the best work on amber written in the 19th century

about the true nature of amber and its origin to its modern scientific clarification and explanation. John's work is extremely thorough and neglects scarcely any aspect of the subject. In his preface, for example, he notes that during the course of preparation he studied all of the literature that he could find that dealt in whole or in part with amber; the result is that this book, aside from its wealth of information on the cultural and technical aspects of amber also became virtually an annotated bibliography of everything worth reading up to the time of its publication.

The first book treats the history of amber, tracing real and imagined knowledge from classical Greek and Roman sources into the Middle Ages and Renaissance, and thence into the early 19th century. Most attention is paid to writings of the 16th to 18th centuries, particularly where they concern factual information about amber. Speculations in ancient sources on the origin of amber are also discussed with much attention paid to the writings in this matter by J G Hasse(which see). Opinions of previous writers on the formation of amber from animal, vegetable, or mineral sources are critically reviewed and all are shown to be untenable except the by no means universally accepted view that it is vegetable in origin. A list of works on amber, mainly articles from journals, that have not been cited in the text up to this point appears on p 169-76, 119 entries.

The second section of the first book is devoted to amber as a substance, treating nomenclature in over a dozen ancient and modern languages, providing a proposed classification and nomenclature, and describing in detail the forms and sizes of rough amber, optical & physical properties, and notes on the properties of weathered material. Inclusions are also discussed and a short list of works treating this subject and an extensive list on plant and animal remains so far identified in amber are provided. World occurences of amber next receive attention and include a good treatment of the geology of the Prussian deposits, the recovery of amber from the sea, and from the strand as well as from underground, with notes on the so-called "liquid" and "doughy" ambers, and the geological period in which amber formed. The uses of amber in the arts and sciences receives attention as well and notes are provided on how amber is worked, types of articles made therefrom, manufacture of varnish, distillation products, and amber uses in medicine, with a curious and strangely lengthy discussion on the use of amber in the embalming of Ethiopian and Egyptian mummies. Another section takes up the chemistry of amber, including its reactions to agents such as water, air, elevated temperatures, alcohol, alkalis, acids, ether, and others, noting also the impossibility of synthesizing amber. The final section of the first book presents a historical review of the processes used to extract succinic acid from amber and includes a series of detailed experiments conducted by the author to isolate and identify the components.

The second book is devoted to bituminous substances, other than amber, with definitions, etymologies of words, origins, compositions, opinions of many authorities on origin, and a broad theory on their origin and nature which John advances. The second section treats modern resins of vegetable origin as copal, benzoin, cedar resin, etc, with remarks on the fabled "bdellium" and an analysis of a "Stocklack" or stick-lacquer, which from the components named, seems to be ordinary shellac. The information on copal appears in translation in Ch 2 of Lown & Booth's *Fossil Resins*, 1891, which see. Scudder, *Bibliography of fossil insects*, p 69, remarks upon the references to fossil insects.

3237. JOHNS COMPANY

The | Johns Gem Cutter [underlined in orn double-rule] | A Machine | for the Cutting and Polishing of | Cabochon or Faceted Gems | (Patented) | Manufactured by | The Johns Company | Route 3, Box 112-A | San Antonio, Texas | Copyright, 1936 by the Johns Company | All Rights Reserved | Price 25 Cents

Centerstapled: 21, [3 blank]p; 27 fig. Pale lavender-pink wrap, black lett, photo of machine on cover. 17.2 x 13.5 cm(6 3/4 x 5 1/4 in). Cut. JSL.

Historically important; advertises and gives instructions on how to use the machine. It is one of the earliest "combination" lapidary machines designed for popular use either in the United States or elsewhere. Probably due to a lack of interest, the machine had little success. In addition to the instructions, the pamphlet recommended several magazines, gave a list of suppliers and a price list. A final section described the use of the machine for making petrographic thin sections.

3238. JOHNS, F A Some bibliographical material additional to C.Denman's Jade: a comprehensive bibliography. *J Amer Orient Soc*, 72, 1952, 111-2. Not seen; from G M Born, p 183, who notes that 64 additional publications are listed, principally on early jades.

3239. JOHNSEN, A Form und Brillanz der Brillanten. *Sitzungsb d Preussischen Akad d Wiss*, Sitzung der physikalisch-mathematischen Klasse, 22. Juli, Bd XXIII, 1926, p 322-30, 2 fig. Mathematical solution to crown & pavilion angles and proportions which are said to provide maximum brilliance in standard brilliant-cut diamonds. Ref: *Fortschritte Min*, 1927, 2, 309-12, 2 fig; *Centralblatt Min*, Abt 2, 1926, 358-61, 2 fig. JSL.

3240. JOHNSON, DOUGLAS WILS0N(1878-1944)

The Geology Of The Cerillos Hills, | New Mexico | By | Douglas Wilson Johnson | Reprinted from the School Of Mines Quarterly, 1903-1904 | Press Of | The New Era Printing Company, | Lancaster, PA. | 1904

Wrap:"Reprinted from the [Columbia University] School of Mines Quarterly, vol.24, Jan., no.2, April, no.3, July, no.4; vol 25, Nov., no.1, 1903." USGS 5-51; JSL.

Largely on the geology & paleontology of the hills famous for their aboriginal turquoise mines; provides description of workings, the turquoise, and the host rock, mainly on p 86-92 and 197-203, the last on the microscopic characters of the turquoise and its matrix.

3241. JOHNSON, E R

Source Book | for the | Rock and Mineral | Collector | by | E.R. Johnson | Wheeling, W.Va. | 1960 [priv publ]

Green plastic tube binding, loose f: [8, one blank], [2 blank], 136 p; tan, textured paper wrap, front title with orn. 21.7 x 13.8 cm(8 1/2 x 5 1/2 in). Reproduced typescript. $2.00. JSL.

Unhelpful listing of localities in 48 continental states, including gemstones, but without rhyme or reason in the choice of truly important deposits. References appear on p 126-36 and form the most useful feature.

JOHNSON, FRANK, see CRAWFORD, WILLIAM P

3242, JOHNSON, H CYRIL

Gem Hunters Atlas | Southwest | Arizona - New Mexico - Utah - Colorado | -$1.00- | Written and published by | H.Cyril Johnson | Scenic Guides | Box 288, Susanville, California | Copyright 1958 by H.Cyril Johnson

Centerstapled: [36]p, 32 fullp sketch map. Yellow-pink textured wrap, brown lett, sketch map on covers. 23.2 x 15.5 cm(9 1/8 x 6 1/8 in). Cut. JSL.

General collecting & field trip advice, with sketch maps showing roads, mountains, rivers, etc, with crosses marking collecting sites. Two kinds of maps provide indexes and detailed site maps, the latter drawn to a scale good enough to furnish good directions. Highly popular and reprinted many times, eg, a revised 6th printing appeared in 1961; there are later issues.

3243. -----1962

Western | Gem Hunters Atlas | California - Nevada |...[4 lines]...| $2.50 | Written and published by | H.Cyril Johnson | Scenic Guides | Box 288, Susanville, California a Third edition | Revised 1963 | Copyright 1962 by H.Cyril Johnson

Centerstapled: [3], 92, [1]p; index map + 92 detailed locality maps. Printed in blue ink with red nos, stars, etc. Pale green wrap, cut gem design overall, title in green on cover with sketch map of the Western United States. 22.9 x 15.4 cm(9 x 6 in). Cut. JSL.

Sketch maps indicate collecting sites for gemstones & minerals in the Western states and including parts of British Columbia, Texas, and South Dakota. Shows mileages, names of properties where known, rock shops along the way, as well as sites and other appropriate information, all indicated directly upon the maps. Also very popular and reprinted, with changes from time to time, eg, a 7th edit in 1966, price $3.00, completely revised.

3244. JOHNSON, PAUL WILLARD(1937-1969) The Chivor emerald mine. *J Gemm*, 8, 4, 1961, 126-52, 19 fig, sketch map, 4 tabs, 12 refs. Offprint in pale gray print wrap, centerstapled, 27 p. JSL. Based on a personal visit: describes geography, geology, mineralogy, economy of the district, mining methods, production, and details on the emerald crystals in terms of their types, inclusions, composition, flaws, color qualities, etc, with remarks on grading & evaluation of rough. Very good photos.

3245. -----1961 All about emeralds - natural or synthetic. *Lap J*, 15, 1,1961, 118-31, ill, refs. A general overview from origin to finished gems.

3246. -----1965

Field Guide | to the | Gems and Minerals | of | Mexico | (Exclusive of Baja California) | A Guide to the most productive and interesting | mineral and gem collecting localities, with a | Spanish-English, English-Spanish glossary of | gem, mineral and mining terms. | By | Paul Willard Johnson | [logo] | Price $2.00 | Copyright © 1965 by Gembooks | Published By | Gembooks | Mentone, California

Centerstapled: 96 p but text carried into inside back cover; 53 photos, 7 text maps(1 doublep). Stiff white wrap, pink & pale red on front cover with black lett & orn; publ logo inside front cover; list of bks back cover. 20.8 x 13.7 cm(8 1/8 x 5 1/2 in). Cut. JSL.

Cont: tp; tab cont; ackn; pref; introd; 5 sections; gloss; errata.

After remarks on geography, trip planning, tourist conduct, customs regulations, and other useful advice to travelers, the text takes up areas of Mexico that are readily accessible by automobile from main highways. In addition to locality information, descriptions and comments are made on a number of gemstones and there is also given a glossary of terms used by Mexican miners to describe their agates. A later issue is identical but with new wrap design embodying two stone idols. Despite the appearance of *The minerals of Mexico* by W D Panczner, 1987, the present work remains useful to collectors for whom it was specifically written.

3247. -----1969 Common gems of San Diego County, California. *J Gemm*, 11, 7, 1969, 274-96, 14 fig(1 sketch map); 23 ref. Also offprint: pale gray print p. 23 p, 21.6 x 14 cm(8 1/2 x

5 1/2 in). Cut. JSL. Brief historical introduction followed by remarks on pegmatite deposits and descriptions and sources of beryl, spessartine, spodumene, topaz, and tourmaline, with lists of associated minerals. The photographs are mostly of gemstone crystals.

3248. -----1969 Gemstones of San Diego County. *Lap J*, 23, 7, 1969, 998-1014, ill, map, refs. Essentially same contents as above.

3249. JOHNSON, W The origin and formation of the diamond. *South Afr J Sci*, 6, 1910, 167-80; 11, 1915, 275-86. Also offprinted. Not seen.

JOHNSTON, WILLIAM, see BECKMANN, J, 1846

3250. JOHNSTON, WILLIAM DRUMM, Jr Cristal de rocha em Cristalina, Estado de Goiaz. Brasil, Dept Nac Prod Min, *Div Fomento Prod Min, Avulso* 57, 1944, 11-28, ills. GS 45-96. Iglesias & Meneghezzi, 1949, p 23. Not seen.

3251. -----& BUTLER, ROBERT D Quartz crystal in Brazil. *Bull GSA*, 57, 1946, 601-49, 11 pls, 25 fig(includ geol sketch maps). Crystals mined primarily for manufacture into piezoelectric wafers but much gem material also unearthed. Describes deposits, types of crystals, etc in Minas Gerais, Goiaz, Bahia.

JOMARD, E F, see CAILLIAUD, F, 1822

3252. JONAS, JOSEPH.

Ungerns Mineralreich | orycto-geognostisch | und | topographisch | dargestellt | von | Joseph Jonas, | Custos der Vereinigten Naturalien-, technologischen und | Modellen-Kabinette im unger'schen National-Museum; |...[8 lines of mbrships]...| [taper rule] | [taper rule] | Pesth, 1820. | Hartleben's Verlag. [with facing title verso:]

Physio-technographisches | Magazin | über die | anorganische Natur | des Oesterreich'schen Kaiserstaates. | [taper rule] | Herausgegeben | von | Joseph Jonas, |...[10 lines of positions, mbrships]...| [wavy rule] | Erster Jahrgang. | [wavy rule] | [taper rule] | Pesth, 1820. | Hartleben's Verlag.

8°: XLVIII, 414, [9]p. 20.8 x 12.9 cm(8 1/4 x 5 1/8 in). Cut. JSL.

Cont: ser tp; tp; dedic & introd; note; pref; tab cont; text; append; index; blank p. Agassiz III, 329.

In two parts, the first on the mineralogy of ores and a description of a trip taken by the author to several famous mining districts of Hungary, the second, on the minerals of Hungary taken up systematically. In the second part appear descriptions of gemstones such as rock crystal, including the celebrated "Marmorosch diamonds," for which Jonas advocates a greater role in ornament, also silicified and opalized woods, chalcedony, jasper, flint, carnelian and agate, and for the last, Jonas pleads for the establishment of an industry like that in the Idar-Oberstein region of Germany. Further gem materials are obsidian, and opal, both common and precious, with the last receiving extended remarks as befits its great importance at that time and as mined in the Dubnik, Czechoslovakian deposits, then known as Cernewitza. A rare work.

3253. JONAS, R Bernsteinperlen aus einem mykenischen Kuppelgrabe und die Identifizierung ihrer Substanz mit Succinit. *Schriften physikal-ökonom Ges Königsberg i Pr*, 49, 1909, 351-68, figs(sketch map). Not seen.

3254. JONES, FRANCIS T Iris agate. *Amer Min*, 37, 7/8, 1952, 578-87, 6 fig, tab. "Iris agate owes its spectral colors to the presence of a diffraction grating structure."

3255. JONES, JOHN

The | History And Object | Of | Jewellery. | By | John Jones | [rule] | Published By The Author, | At His | Watch Manufactory, | No.338, Strand, Opposite Somerset House. | 1847.

8°: 69, [3 blank]p. Dk brown cloth, horizontally striped in red; blind baroque frame enclosing "Jewellery" in gold on cover; frame alone back cover. Tan, dull-finish endp. 16.1 x 10.5 cm(6 3/8 x 4 1/8 in). Aeg. JSL.

Cont: tp; print data; text; 3 blank p.

A little-known yet remarkably erudite work which in effect is an essay tracing the development of jewelry from the ancient Egyptians, Greeks, Romans, Arabians, Hebrews, and Chinese, through Mediaeval times in Europe. During this excursion much is imparted on the gemstones themselves and on their cutting. A remarkable feature is a poem in Latin on the foundation stones of the New Jerusalem as described in the Apocalypse, and said to have come from a work of Marbodeus(ca 1500) entitled *On the Stones of the Breast Plate*, herein on p 30-2, with an English translation by Jones on p 32-4. The poem treats the 12 gemstones, namely, jasper, sapphire, chalcedony, emerald, sardonyx, sard, chrysolite, beryl, topaz, chrysoprase, hyacinth, and amethyst. Altogether a charming work. Rare.

3256.-----18-(?), reprinted

The | History And Object |... | [rule] | London: | Published By The Author, | At His Watch Manufactory, | No.338, Strand, Opposite Somerset House. | And Sold by William S.Orr and Co., Amen Corner, | and 147 Strand. Identical.JSL.

3257. -----1930, reprinted

The History | And Object Of | Jewellery | By | John Jones | First Printed, 1847 | Reprinted in 1930 by the daughter of | Dr Garth Wilkinson [Edinburgh]

8°: 76 p. Ivory-white cloth, gilt "Jewellery" and a bird on cover; the single word on spine. 18.5 x 12.2 cm(7 1/4 x 4 3/4 in). Cut. JSL.

Cont: 1/2tp; tp; print data; text. Identical in text.

3258. JONES, ROBERT WILLIAM(1926-) Diamonds. *Rock & Gem*, 9, 1, 1979, 40-7, 68-71, ill(col); 2, 48-55, 92-3. Broad coverage in popular style.

3259. -----1985 The colored gem explosion. Ibid, 15, 3, 1985, 24-30, ill(col); 5, 40-4; 6, 52-7; 7, 52-7(ill). Information on recent market developments in colored gemstones and their heightened modern importance.

JONES, R W, see ARIZONA HIGHWAYS, 1975

3260. JONES, THOMAS RUPERT(1819-1911) On quartz, chalcedony, agate, flint, chert, jasper, and other forms of

silica geologically considered. Offprint: *Proc Geol Assoc*, London, 4, 7, 1876, 20 p. Pale blue print wrap, cover title. 21.2 x 13.7 cm(8 3/8 x 5 3/8 in). Cut. JSL. Highly interesting, with many unusual facts elucidated: cultural lore, scientific information on nature of silica, occurrences, coloration, varieties(including gem), uses, etc, and forming as it stands a lecture that would be eminently suitable for presentation to a general audience. Jones was prof of geol in Sandhurst, retired 1880. He mainly wrote in paleontology.

JONES, T R, see STOW, G

3261. JONES, WILLIAM

The | Treasures Of The Earth; | Or, | Mines, Minerals, And Metals. | With Anecdotes Of | Men who have been connected with Mining. | By William Jones, F.S.A. |...[4 line quote, Milton]...| [logo] | London: | Frederick Warne And Co., | Bedford Street, Covent Garden. | 1868.

8°: xvi, 301, [1 blank], [2 advert]p; engrav front pl with tissue tipped-in + 7 wood engrav pls, each with tissue, tip in. Bright blue cloth, elaborate orn gold vignette on cover bearing title in blind-rule frame; similar orn & lett on spine; blind frame on back cover enclosing blind round orn. Beveled bds. Faintly greenish-yellow endp. 16.4 x 11.3 cm(6 1/2 x 4 1/2 in). JSL.

Cont: 1/2tp; front; tp; print data; dedic; pref; tab cont; 18 chs; index; advert.

Popular, anecdotal: chapters on the precious metals and mines, coal, copper, tin, and about miners, their superstitions, perils, and escapes, mines under the sea, iron, Russian mines, lead mines, quicksilver, salt, and eminent men connected with mining. Of interest here: Ch 15, 213-34, "Diamond Mines, And Celebrated Diamonds," provides a history of this gem, notes on the mines in India, Brazil, and cutting, carat weight, and famous diamonds.

3262. -----1872(?), 2nd edit

The | Treasures Of The Earth; | Or, | Mines, Minerals, And Metals, | With Anecdotes Of | Men who have been connected with Mining. | By | William Jones, F.S.A. | Author of "The Broad, Broad Ocean." | New Edition | With Original Illustrations. | [logo] | London: | Frederick Warne And Co., | Bedford Street, Covent Garden. | New York: Scribner, Welford, And Armstrong.

No date; title enclosed in single-rule frame as are all text p.

8°: [2 blank], xii, 404 p; tip-in front wood engrav pl with tissue + 7 others tipped-in but less tissues. Green cloth, elab black & gold stamp on front cover & spine; blind frame back cover. Beveled bds. 17.7 x 12.2 cm(7 x 4 3/4 in). Cut. JSL.

Cont: blank f; front; tp; print data; dedic; prefs; tab cont; 21 chs; index.

Added: Ch 16; "Precious Stones, And Superstitions Connected With Them," Ch 17, "Crowns," and Ch 18, "Common Stones." Other additions were made to the chapter on eminent men.

3263. -----1872, 2nd edit, NY

The | Treasures Of The Earth; |...| Author of "the Broad, Broad Ocean." | Illustrated. | [logo] | New York: G.P.Putnam & Sons, | Fourth Avenue And Twenty-Third Street. | 1872.

8°: [2 blank], xii, 404 p (the first blank and the titleleaf are on thinner paper and evidently supplied); same front pl & other pls. Terra cotta pebbled cloth, orn gold lett on cover & spine, with 2 black horizontal rules above & below, extending around covers & spine. Faintly brownish endp. 18 x 12 cm(7 1/8 x 4 3/4 in). Letterpress enclosed in single-rule frames. I have also examined copies in dull brown endp and one bound in bright yellow-green cloth with cream endp. GS 15-758. JSL.

Cont: blank f; tp; dedic; prefs; tab cont; 21 chs; index.

3264. -----187-(?), "Prize Library "

The "Prize Library," | [rule] | The Treasures Of | The Earth: | Or, | Mines, Minerals, And Metals. | By | William Jones, F.S.A. | Author Of "The Broad, Broad Ocean," Etc. | With Original Illustrations. | [logo] | London And New York: | Frederick Warne And Co. | [orn rule] [nd]

8°: xii, 404 p, but there is no leaf for p[i-ii] unless one counts the tip-in front pl(minus the tissue); there are no other pls. Bright blue cloth, elab col ivy-leaf dec on front cover, enclosing a gilt panel of lett; another panel in black bearing ser title and extending over spine; back cover with horizontal blind rules at top & bottom, blind logo in center. Bright yellow, dull-finish endp. 18.3 x 12.3 cm(7 1/4 x 4 7/8 in). Cut. JSL. Cheap version; text same but not enclosed in ruled frames.

END OF TREASURES OF THE EARTH

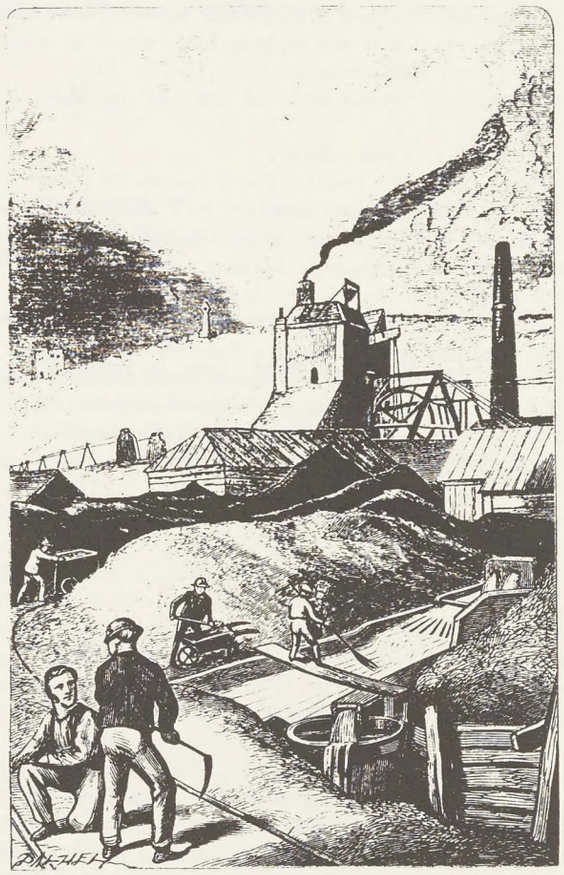
3265. -----1876

Finger-Ring Lore | Historical, Legendary, Anecdotal | By | William Jones, F.S.A. | [orn] | With Numerous Illustrations | London | Chatto And Windus, Piccadilly | 1876

8°: xvi, 545, [2], [1 blank]p + 36 p cat of publ bks; 220 wood engravs. Bright blue cloth, 3-rule black frame on cover enclosing a group of gold rings; blind rule frame back cover; elab dec spine, ie, a hand holding rings suspended by cords passing through a horizontal ring, another ring at bottom, with title in blue & gold. Pale yellow-tan endp. 18.8 x 12.6 cm (7 3/8 x 5 in). Te uncut. JSL.

Cont: 1/2tp; print data; tp; dedic; pref; tab cont; ill list; 10 chs; append; index; print data; title orn; blank p; publ cat(dtd Nov 1876).

A typical William Jones production: all-encompassing, detailed, well-illustrated, and an enormous fund of information gleaned from myriad sources and still invaluable as a reference even to the specialized jewelry historian. No other work except G F Kunz *Rings*, which see, approaches it in respect to the quantity of material. Rings of all kinds, and from all periods are described along with their origin, uses, significance, etc, with perhaps the greatest emphasis laid on those used in religious and civil ceremonies, or as talismans, tokens of affection or faith, or as talismans, tokens of affection or faith, or as mere ornaments. The gems set in rings, whether engraved, cabochoned or faceted, are not ingnored by any means, and the gemologist will find much said about them throughout the text. This work proved to one of Jones' most popular books, passing through a number of reprintings, a second edition, and a modern edition. In regard to Jones' qualifications as a writer, Allibone, Suppl, 2, 925, provides the following scathing commentary from the *Saturday Review*, London, vol 42, 485, "it would be nearly impossible to produce a book on the subject which should be without interest; Mr. Jones, by the mere use of paste and scissors, has brought within the compass of one binding a great many different pieces of information... Of mere mistakes and careless blunders the



Front. A CORNISH TIN MINE.

THE

TREASURES OF THE EARTH;

OR,

MINES, MINERALS AND METALS,

WITH ANECDOTES OF

MEN WHO HAVE BEEN CONNECTED WITH MINING.

BY

WILLIAM JONES, F.S.A.,

Author of "The Broad, Broad Ocean."

ILLUSTRATED.

NEW YORK:
G. P. PUTNAM & SONS,
FOURTH AVENUE AND TWENTY-THIRD STREET.
1872.

3262. Titlepage and facing wood engraving of a popular treatise on economuc mineralogy which includes gemstones

book is full." Certainly there is much merit in these criticisms, Jones was a "scissors and paste-pot" writer, but not as careless as the critic supposes and the fact remains that this book continues to be a gold mine of information that makes absorbing and instructive reading albeit not of the rarified scholarship that the critic of the *Saturday Review* apparently expected. Compilations of the kind that Jones produced still serve as useful guides to the older literature that Jones depended upon; once led to these sources, modern writers can establish their own standards for veracity.

In 1877 this work was reprinted twice, the dates sometimes ascertainable from the dates placed in the publisher's catalog of books.

3266. -----1890, 2nd edit

Finger-Ring Lore |...| William Jones, F.S.A. | Author Of 'Credulities, Past And Present' 'Crowns And | Coronations, A History Of Regalia' Etc. | [orn] | Second Edition, Revised And Enlarged | With Nearly 300 Illustrations | London | Chatto & Windus, Piccadilly | 1890

8°: xvi, 567, [1]p + 32 p catalog of bks. Same ill. Same binding but endp now grayish-brown, dull finish. Same size, etc. JSL.

Aside from the reset title and addition of "Notes To The Second Edition," p 535-55, the work is identical. The book catalog is dated 1894 and suggests that the copy examined may be a second or even a third printing.

3267. -----1898, a "new edit "

Finger-Ring Lore |...| William Jones, F.S.A. | Author Of | 'Credulities Past And Present' 'Crowns And Coronations,' Etc. | [orn] | A New Edition | With Numerous Illustrations | London | Chatto & Windus | 1898

8°: xvi, 567, [1]p + 32 p catalog of bks. Same ill. Binding in dk purplish-gray cloth, blind rules at top & bottom of covers, a small cluster of gold rings in front cover center, with one

FINGER-RING LORE

HISTORICAL, LEGENDARY, ANECDOTAL

BY

WILLIAM JONES, F.S.A.



WITH NUMEROUS ILLUSTRATIONS

London

CHATTO AND WINDUS, PICCADILLY

1877

3265. Jones' detailed work on all aspects of finger-rings contains much on gemstones and engraved gems and is still very much valued today

bearing monogram "IG"; blind rules & gold title spine. Off-white endp. 19.2 x 12.8 cm(7 1/2 x 5 in). Te cut, fe part trimmed, be untrimmed. Red marker ribbon, LC 1-13048. JSL.

Title notwithstanding identical to previous; book catalog dated Jan 1902 again suggesting several printings prior to this date.

3268. -----1968, facs of 1890 edit

Finger-Ring Lore |...| 1890 | Now Reissued by | Singing Tree Press | 1249 Washington Blvd., Detroit, Michigan 1968

16°: xvi, 567, [1 blank]p. Same ill. Black cloth, large gold ring on front cover in a square gold double-rule frame; gold title on spine with a gold pair of lovers & a clasp-ring. Red endp. 21.4 x 14 cm(8 1/2 x 5 1/2 in). Cut. $14.50. LC 67-24357; ISBN 0-8103-3449-6. JSL.

Facsimile title to which new publisher added at foot; new publ data p [ii], otherwise identical. Rev *G & G*, 13, 1, 1969, 38; *Austral Gemm*, 10, 6, 1969, 26-7.

END OF FINGER-RINGS

3269. -----1880

History And Mystery | Of | Precious Stones. | By | William Jones, F.S.A., | Author Of "Finger-Ring Lore," Etc. |...[14-lines quot]...| [logo] | London: | Richard Bentley And Son, | Publishers in Ordinary to Her Majesty the Queen. | 1880.

8°: xii, 384 p + [2 advert]f. Brown cloth, also in brownish-orange, pale green cloth; gold & black lett on cover with floral & fruit orns in upper right-hand corner of cover; gold lett, orn rules on spine. Beveled bds. V pale yellow endp. 18.9 x 12.6 cm(7 3/8 x 5 in). Te uncut. JSL.

Cont: tp; dedic; pref; tab cont; 9 chs; index; advert.

An astonishingly detailed work still of much value for its wealth of obscure or unusual information zealously gleaned from myriad sources. In this work is found superstition & curious lore of gems, pearls & pearling, fascination with gemstones, gemstones in connection with religious rites and in symbolism, famous jewel robberies, histories of some famous gems and jewels, jewels of the Tudors and Stuarts of England, and the employment of gemstones and jewels in decorations, orders, and badges. The encyclopedic character of Jones' works is nowhere better exemplified than here, and any writer interested in the lore or gems rather than their scientific aspects, can do far worse than to refer to this book for ideas. In its way, this work is a landmark among gem books. It was enormously popular and passed through a number of printings.

Among reprintings may be noted one in pale olive-green cloth, with extremely elaborate Victorian-style gold title on cover, with author's name and subtitle in black, all enclosed in double-rule black frame, and similar elaborate title & orn all in gold on spine; back cover blind double-rule frame; dk gray endp; beveled bds; extra blank f supplied before title. Another, also same date, without index or adverts; endp pale blue.

3270. -----1968, facs reprint

History And Mystery |...| 1880. | Now Reissued by | Singing Tree Press | 1249 Washington Blvd., Detroit, Michigan 1968.

16°: [1]f + xii, 376 p + [1 blank]f. Bright, emerald-green cloth, original gold orn-title reproduced on front cover & spine; bright red endp. 19.4 x 13.4 cm(7 5/8 x 5 1/4 in). LC 68-22031; ISBN 0-8103-3450-X. JSL. Facsimile, with title change; index omitted.

END OF HISTORY AND MYSTERY

3271. -----1880

Credulities Past and Present | Including | The Sea And Seamen, Miners, Amulets And Talismans, | Rings, Word And Letter Divination, Numbers, | Trials, Exorcising And Blessing Of Animals, | Birds, Eggs, And Luck | By | William Jones, F.S.A. | Author Of "Finger-Ring Lore," Etc. | [orn] | London | Chatto And Windus, Piccadilly | 1880 | [All Rights Reserved.]

8°: xii, 560 p + 32 p catalog of bks; engrav front pl, tip-in, with tissue. Dk blue cloth, black rules, orns, lett on cover with gold hand & oval vignette; black rules, gold band, orns, etc on spine. Green floral endp. 18.8 x 12.7 cm(7 3/8 x 5 in). Te uncut, fe untrimmed. 3s.6d. LC 15-24194. JSL.

Cont: 1/2tp; advert; front; tp; quot; dedic; tab cont; pref; 10 chs; index; advert.

HISTORY AND MYSTERY

OF

PRECIOUS STONES.

BY

WILLIAM JONES, F.S.A.,

AUTHOR OF "FINGER-RING LORE," ETC.

"Give me the merchants of the Indian mines,
That trade in metal of the purest mould;
The wealthy Moor that in the Eastern rocks
Without control can pick his riches up,
And in his house heap pearl like pebble stones,
Receive them free, and sell them by the weight.
Bags of fiery opals, sapphires, amethysts,
Jacinths, hard-topaz, grass-green emeralds,
Beauteous rubies, sparkling diamonds,
And seld-seen costly stones of so much price,
As one of them, indifferently rated,
And of a carrect of this quantity,
May serve in peril of calamity
To ransom great kings from captivity."
MARLOWE'S "*Rich Jew of Malta.*"



LONDON:
RICHARD BENTLEY AND SON,
Publishers in Ordinary to Her Majesty the Queen.
1880.

3269. First edition titlepage of an encyclopedic collection of fact and lore

Typically William Jones: a melange of anecdotes, stories, tales, facts & fiction, on a wide range of curious and occult lore, all of it quite fascinating. Gemologists will find these of particular interest: Ch 2, amulets & talismans, 152-94, Ch 4, rings, 195-219. In both, gemstones are frequently mentioned; references furnished throughout.

3272. -----1898, new edit

Credulities | Past And Present | Including |...| By | William Jones, F.S.A. | Author Of | "Finger-Ring Lore," "Crowns And Coronations," Etc. | [logo] | A New Edition | With A Frontispiece | London | Chatto & Windus | 1898

8°: xii, 560 p + 32 p catalog of bks(on badly embrittled & browned paper). Same front ill. Dk purplish-blue cloth, single oval gold orn on blind rules; gold lett, blind rules spine; blind rules back cover. 19.2 x 12.8 cm(7 1/2 x 5 1/8 in). Te uncut, fe untrimmed. 7s 6d., cloth extra. JSL. Identical.

3273. -----1968, facs(?) The 1880 edition by Gale Research Co., Detroit, Michigan. LC 67-24355; ISBN 0-8103-3447-X. $18.50. Not seen.

END OF CREDULITIES

3274. -----1883

Crowns & Coronations | A History of Regalia | By | William Jones, F.S.A. | Author Of | "Finger-Ring Lore," "Credulities, Past And Present," Etc. | [orn] | With Ninety-One Illustrations | London | Chatto And Windus, Piccadilly | 1883 | [All rights reserved]

8°: [blank]f + xxx, 551, [1 blank]p + 32 p catalog of bks; tip-in wood front pl with tissue, printed in brownish ink, 89 text wood engravs; orn inits. Red cloth, black rules, Tudor roses on cover, in center a black frame enclosing 5 gold crowns; black rules & rose on spine with gold lett, crown & scepter, plus a black design; black medallion back cover. 19 x 12.7 cm(7 1/2 x 5 in). Te uncut, fe untrimmed. 3s 6d. USGS Kunz Coll, GS 33-216.

Cont: blank f; 1/2tp; other bks of author; pl; tp; dedic; pref; tab cont; ill list; introd; 12 chs; index; blank p; catalog. JSL.

As expected, Jones assembled an enormous amount of information on jewels, regalia, and the customs and lore associated with them. There is also much information on the rituals of coronation. Naturally much of the text concerns England but the material is by no means confined to that country alone. In this connection, Jones states "I venture to think that the present book is the first that contains a summary of coronations extending through various ages of the world's history." Understandably, the scope is large, containing two chapters on ancient crowns, eight on the English crowns, regalia, and ceremonies, with an interesting chapter on omens and incidents attending past coronations, and a chapter on the regalia and ceremonies of coronation in other kingdoms. Considerable matter on jewels and gems appears in the text but these are not considered separately. However, a little delving in this fascinating and useful treatise unearths much of interest to the gemologist. Allibone, *Suppl*, 2, 925.

3275. -----1898, a new edit

Crowns & Coronations |...| [orn] | A New Edition | With Ninety-One Illustrations | London | Chatto & Windus | 1898.

So far as I can determine, this is merely a reprinting with the only change being the reset title. Another issue appeared in 1902, again identical except for the date on the titlepage; the publisher logo is now substituted for the medallion on the back cover, and the cloth is very smooth, brighter red, LC 2-18216. JSL.

3276. -----1968, facs of 1902 issue

Crowns & Coronations |...| London | Chatto & Windus | 1902 | Now Reissued by | Singing Tree Press | 1249 Washington Blvd., Detroit, Michigan 1968

8°: xxx, 551, [3 blank]p; front pl, formerly in sepia, tip-in with tissue is now printed on verso of first f, with 1/2t printed recto and this leaf counted as p[i-ii]; the tissue is omitted. Same ill. Bright red cloth, 3 gold crowns & top & bottom orn borders stamped on front cover; one crown & title, same borders, on spine; back plain. Dk gray endp. Te stained bluish-gray. 21.4 x 13.9 cm(8 1/2 x 5 3/8 in). Cut. $22.00. LC 67-24356; ISBN 0-8103-3448-8. JSL.

Cont: 1/2tp; pl; tp; LC no; dedic; pref; introd; text; 3 blank p.

An excellent, sharp reproduction on slightly yellow paper and sturdily bound.

JONSTON, JONSTONUS, or JOHNSTON; JOHANN, JOANNES, JEAN, or JOHN(1603-1675)

Naturalist, author; b Poland of Scot parentage; much traveled in Europe; univ studies in British Isles, Germany, Holland; MD Leyden 1632; late years lived in Silesia. See extended remarks in Ferguson, *Hist Invent & Bks of Secrets*, 1, 12-15; *Biogr Univ* 21, 631-2.

3277. -----1632 Thaumatographia naturalis... Amsterdam, 1632. 12°: [xii], 501, [3] p; ist edit. Not seen, from Ward & Carozzi, 1217; DeGolyer Coll U Okla.

"Thaumatographia" = description of natural wonders, Ferguson stating "this is a collection of natural wonders of all kinds... there is nothing from his own experience, but he has ransacked ancient and modern literature, for whatever marvels they could furnish." Agassiz III, 331.

3278. -----1633, 2nd edit

Iohannis Ionstoni | Thavmatographia | Natvralis, | In Classes decem divisa: | in quibus | Admiranda | Coeli, | Elementorvm, | Meteorvm, | Fossilivm, | Plantarvm, | Avivm, | Qvadrvpedvm, | Exangvivm, | Piscivm, | Hominis. | Editio Secunda priore auctior. | [orn] | Amstelodami, | Apud Ioannem Ianssonivm. | [rule] | Anno M:DC,XXXIII. [Amsterdam: Johann Jansson, 1633]

12°: [6], 578, [2] p; (?)^2, A-Aa^6, Bb^2. 11.8 x 7 cm(4 5/8 x 2 3/4 in). Copy cropped to narrow margins. JSL; Ward & Carozzi 1218; Agassiz III, 331.

Cont: tp; quot; dedic; text; laudation of Jonston. Note: the first f of the text is unnumb although it is first leaf of signature A.

Jonston's work achieved wide distribution and passed through a number of editions. As can be seen from the fields of knowledge treated in the book only a relatively small portion is of interest to gemologists, ie, the fourth part, which considers "fossils," or as then meant, any mineral production, and extending over p 137-99. Jonston uses no logical order in presenting his information, either within this part or within each chapter, and one gains the impressions that the bits of knowledge taken from the many authorities cited were set down as they came to hand. Among the gemstones described are amber, jet, coral, rock crystal, iris (referring to a cracked quartz crystal showing iridescence along the fissures), diamond, opal, emerald, heliotrope(bloodstone), topaz, amethyst, hyacinth, sardonyx, onyx, nephrite, jasper, agate, ruby, "carchedonio," "sandastro," chrysolite, turquoise, and others. One of the chapters describes "gems in animal bodies," that is, fossils whose shapes resemble parts of animal hard structures, although bezoars are also included here, Among authorities cited: Agricola, Pliny, Scaliger and De Boodt.

3279. -----1657, Engl transl An history of the wonderful things of nature: Set forth in ten severall classes. Wherein are contained I. The wonders of the heavens... IV. Of minerals... Written by Johannes Jonstonus. And now renderd into English, By a person of quality. London, printed by John Streater, living in Weel-Yard near the Hospitall of St.Bartholomew's the Lesse, and are to be sold by the book-sellers of London, 1657. [title in red & black] 4°: [16], 354, [1 advert]p; 26.6 x 22.3 cm(10 1/2 x 8 3/4 in). Not seen. Ward & Carozzi, 1221; Agassiz III, 331.

3280. -----1661 Thaumatographia naturalis... Amstelodami, Apud J.Janssonium, 1661. 498 p. Not seen: Ward & Carozzi, 1219.

3281. -----1665 Same, same publisher, 12°: 495, [3]p, includes allegorical engrav tp. Pag error: p 479-89 repeated. Not seen, from Ward & Carozzi, 1220.

3281A. JORIS, ALBERT A destiny in diamonds. Spring Hill, Queensland: Boolarong Publications, 1986(?). Aus $15.95. Autobiography; the author was brought to Australia by his diamond-cutter father Jules Joris, settling in Sydney in 1930. Ultimately engaged in gem and industrial diamond tool production over a period of 55 years. Not seen; rev in INDIAQUA, 45, 1986, 3, p 135.

3282. JOUIN, HENRY

Esthétique | Du | Sculpteur | Par | M.Henry Jouin | Lauréat de l'Institut | (Académie Française et Académie des Beaux-Arts) | [next 5 lines in box:] Philosophie De L'Art Plastique | La Statue | Le Groupe - Les Buste - Le Bas-Relief | Les Pierres Gravées | Les Médailles | Paris | Librairie Renouard | Henri Laurens, Éditeur | 6, Rue De Tournon, 6 | [rule] | 1888

8°: [3], [1 blank], 316 p. Pale green print wrap, cover title. 22.3 x 14 cm(8 3/4 x 5 1/2 in). Cropped.

Cont: 1/2tp; other bks of author; tp; blank p; pref; 13 chs; concl; tab cont.

Ch 12, 243-78, on engraved gems, defines intaglios & cameos, notes early popularity, describes a few transparent gemstones, especially those that are precious, also translucent and opaque gemstones, then passes on to remarks on the antiquity of the engraving art, technique, importance of color, modern views on gem engraving and engravers, and some famous gems and their engravers. A shallow treatment of little value.

JOURDAN, ÉDOUARD, see DUMONT, GEORGES

3283. JOURDY, *Le Général*

Les | Epaves du Pays du Diamant | par | Le Général Jourdy | Ancien Président De La Société Géologique De France | Correspondent Du Muséum National D'Histoire Naturelle | [double-rule] | Extrait | du Bulletin de la Société des Sciences Naturelles | de l'Ouest de la France | 4° Série. t.X. 1930 [title on wrap]

8°: 206, [1], [1 blank]p (also numbered p 77-206) + [1], [1 blank]p. Heavy, tan wrap, cover title(only). 25.1 x 16.5 cm(9 7/8 x 6 1/2 in). Uncut. JSL.

Discusses Wegener's continental drift theory with special reference to Gondwanaland, noting ocurrences of diamond, especially alluvial, from continent to continent as lending support to the theory. However, he also advances a remarkable theory that electrical polarity encouraged the formation of diamond in our present Southern Hemisphere and graphite in the Northern Hemisphere.

JOURNAL D ' OBSERVATIONS SUR LA PHYSIQUE, etc, see ROZIER, F

3284. JOURNAL OF GEOGRAPHY, THE of the Tokyo Geographical Society, vol 51, 1939, contains 3 articles on

gemstones: KATAYAMA, NOBUO, On jewels, 350-62, 10 fig; KO, SOKICHI, Jewels of Japan, 363-8; KUME, TAKEO, Facts and fancies of jewels of the East and West, 369-80, 2 pls. In Japanese, with Engl titles on wrap only. Not seen.

3285. JOURNAL SUISSE D'HORLOGERIE

Manuel De L'Horloger Practicien | [orn rule] | Travail Et Emploi | Des | Pierres Dures En Horlogerie | avec huit figures dans le texte | [rule] | Extrait du Journal suisse d'Horlogerie | [logo] | Genève | Administration Du Journal Suisse D'Horlogerie | 2, rue Necker, 2 | [dash] | 1891

8°: 24 p, 8 fig. Tan wrap, cover title. 24.5 x 15.8 cm(9 5/8 x 6 1/4 in). Cut. USGS Kunz Coll. Cont: tp; print data; tab cont; pref; text.

Hard gemstones used as jewel-bearings in timepieces & instruments: discovery of, history of use, the gemstones, sources, lapidary treatment, abrasives, polishing agents.

J P N M V, see COLOGNE. CATHEDRAL

J R WOOD & SONS, see WOOD, J R, & SONS

3286. JUDD, JOHN WESLEY(1840-1916) & HIDDEN, WILLIAM EARL(1853-1918) On a new mode of occurrence of ruby in North Carolina. With crystallographic notes by J H Pratt. *Amer J Sci*, 8, 1899, 370-81. Reprinted: *Min Mag*, 12, 1899, 139-51.

3287. JUDIN, C; KHABAKOV, A & LUKNITZKI, P

[The lapis-lazuli deposit on the Pamir. Publications of the Pamir Expedition, USSR Academy of Sciences, Leningrad, vol 2, no 12, 1932, p 1-31]. In Russ; not seen.

3288. JUERGENS, HANS PAUL

Gems | A Classification | According To | Color | by H.Paul Juergens | 1939 | National Jeweler, Inc. | Chicago

8°: [3], [1 blank], 59, [1 blank]p. Dk blue cloth, gold title on cover; gold spine title + 2 stars on spine. Pale blue endp. 20.2 x 14.2 cm(8 x 5 1/2 in). Cut. LC 39-8500.

Cont: tp; publ data; dedic; introd; fwd; color index; gem index; gen index; ident tabs accord to color; nat oriental pearl; blank p.

Juergens, a prominent jeweler of Chicago and sometime president of the American Gem Society, wrote this book as an aid in understanding and identifying gems, but it had a short life because the information was not new nor did it present it better than standard texts already in existence. Rev *G & G*, 3, 2, 1939, 25; *The Gemm*, 8, 94, 1939, 164-5. Copies are scarce.

JUGENDRES, SEBASTIAN JACOB, see BAIER, J W

JULIA DE FONTENELLE, JEAN SÉBASTIEN EUGÈNE(1790-1842)

Fr chemist, pharmacist; b Narbonne; prolific writer tech manuals.

3289. -----1832 Manuel complet du bijoutier, du joaillier, de l'orfèvre, du graveur sur métaux et du changeur, contenant un traité sur les pierres precieuses... les diverse opérations pour l'affinage de l'or et de l'argent... Paris, Roret, 1832. "Manuels Roret." 12°: iv, 432 + 342 p; 7 large fold pls(depicting 308 stones, jewels, tools, etc); fold tabs. Not seen, from Marquet de Vasselot, *Biblio l'Orfevrerie*, p 10; also Thomas Heneage Cat 4, London, 1985, no 87, giving "vol 2 312 pp... 14 x 9 cm."

3290. -----1855, 2nd edit

Manuels-Roret. | [rule] | Nouveau Manuel Complet | Du | Bijoutier | Du | Joaillier, De L'Orfèvre | Du | Graveur Sur Métaux Et Du Changeur | Contenant | Un Traité sur les pierres précieuses, la manière de les tailler, de les | imiter et de les monter; la Fabrication des émaux et des mosaïques; |... [8 more lines]... | Ouvrage Orné D'Un Grand Nombre De Figures | Par | M.Julia De Fontenelle. | Nouvelle Édition Entièrement Refondue | Par M. Malepeyre. | Tome Premier [-Seconde]. | Paris | A La Librairie Encyclopédique De Roret | Rue Hautefeuille, 12. | 1855. | L'Auteur et l'Editeur se réservent le droit de traduction.

12°: I: viij, 442 p, many tabs. Vol II not seen. Brownish-purple embossed cloth, gilt spine title & rules; yellow-tan endp. 14.2 x 9 cm(5 5/8 x 3 1/2 in). Cut. JSL. Cont: 1/2tp; avis & facs signature; tp; introd; text in 3 parts; blank f.

The three parts treat gemstones, p 1-178, jewelry metals, and a glossary of terms concerning metals. The gemological part consists of a general remarks, a large section on the diamond, and smaller sections on other gemstones, including their descriptions, alternative names, prices, cutting styles, methods of cutting, and manufacture of imitations. There is a table of variations in carat weight among different countries, p 34-7, and a summary table of gem properties, after Haüy, on p 144-53. Pearls, imitation pearls, and organic gemstones are also described, and a most interesting, detailed description of lapidary apparatus and accessories, with abrasive & polishing agents, appears on p 163-78.

3291. -----1884, new rev edit

Manuels-Roret | [rule] | Nouveau Manuel Complet | Du | Bijoutier- Joaillier | Et | Du Sertisseur | Comprenant | La Description Et La Composition | Des Pierres Précieuses | De La Nacre, Des Perles, Du Corail Et Du Jais, | L'Art De Les Tailler Et De Les Imitée, | Les Divers Genres De Sertissage, Le Montage Des Parures, Etc. | Suivi de | L'Historique des principaux Ordres de Chevalerie | et de la description de leurs décorations | Par Messieurs | Julia De Fontenelle et Malepeyre | [rule] | Nouvelle Édition | Entièrement Refondue Et Augmentée | Par M.A.Romain. | [rule] | Ouvrage Accompagné De Planches | [orn rule] | Paris | Librairie Encyclopédique De Roret | Rue Hautefeuille, 12 | 1884 | Tous droits réservés.

16°: [4], 320, 52 advert p; 3 fold litho pls. Pale tan wrap; tp & wood engrav vignette on cover; advert back cover. BM(NH) Library.

Cont: series tp; other bks for sale; tp; editor's note; text; pls; tab cont; publ catalog of bks.

The text covers general gemology, diamond (including cutting and famous diamonds), lapidary work & machinery, colored gemstones, pearls and other organic gemstones, prices, property table, imitations, mountings, orders & decorations. The folding pls depict crystal drawings, styles of cut stones, lapidary apparatus, 36 figures of orders & decorations.

3292. JULIEN, ALEXIS ANASTAY(1840-1919) A bibliography of the diamond fields of South Africa. *Econ Geol*, 4, 1909, 453-69. Ca 285 entries. JSL. See also J F Kemp, memorial of, *Geol Soc Amer Bull* 31, 1919, 84-8, biblio 76 entries.

3293. JUNG, H Über Türkis. *Chemie d Erde*, 7, 1, 1932, 77-94, fig, 5 tab. Remarks on turquoise in general, composition, properties, synthesis, analyses & methods for, a new "standard analysis," and a tab of 18 anal indicating variations in components and lengthy discussion of results; suggestions on origin of turquoise.

3294. JUNIOR, AGUSTO LIMA Historia dos diamantes nas Minas Gerais, secolo XVIIl. Rio De Janeiro, Lisboa: Dois Mundos, no date. 240 p, leaf. "Cultura Hispanica." Not seen.

3295. JUNNER, NORMAN ROSS(1891-) & BANNISTER, FREDERICK ALLEN(1901-)

The Diamond Deposits | Of The Gold Coast | With | Notes On Other Diamond | Deposits In West Africa | (Seven Plates) | N.R.Junner, O.B.E., M.C., D.Sc., D.I.C., F.G.S., M.Inst.M.M. | Director, Gold Coast Geological Survey | And Appendix | The Crystal Forms Of Diamonds | From The Gold Coast | By F.A.Bannister, M.A., | Deputy Keeper, Department of Mineralogy, British Museum | (Natural History) | Published under the Authority of | His Excellency | Sir Alan Burns, K.C.M.G., | Governor of the Gold Coast | Price 3s. | Printed by F.J.Milner, Kensington Gore, S.W.7. | 1943

At head of title: "Gold Coast | Geological Survey | (Bulletin No.12) | [rule] |..." Entire title in single-rule frame.

8°: 52 p; 7 pls(5 fold, part col maps in back cover cloth pocket + 2 glossy tip-in pls with 6 photos). Stiff brown wrap, cover title. 24.8 x 15.3 cm(9 3/4 x 6 in). Cut. USGS 43-146. JSL.

Cont: tp; tab cont & pls list; text; 2 photo pl f; maps.

History, previous publications, physiography & geology of the fields, distribution & occurrences of the diamonds, features of the diamonds, associated minerals, prospecting & mining methods, production, sales statistics, origin of diamonds, notes on deposits elsewhere in West Africa, descriptions of the crystals by Bannister; photos are thin sections of rock & diamond crystals encrusted by quartz(1 photo). Reprinted in 1958; not seen.

3296. JUURINEN, AARNO Composition and properties of staurolite. *Suomalaisen Tiedeaktemian Toimituksia(Annales Academiae Scientiarum Fennicae)*, Sarja (Series) A, III, Geologica-Geographica, 47. Yellow-tan print wrap: 53 + [2]p; 6 fig, 20 tab. Cover title. 25 x 17.5 cm(9 7/8 x 6 7/8 in). Cut. JSL. Describes samples and methods of investigation, reviews previous work, records new chem analyses, discusses correlation between physical properties & composition, suggests a new formula and crystallographic data.

JUVELIER, DER AUFFRICHTIGE, see AUFFRICHTIGE JUVELIER

3297. JUWEELENSTOET

De Juweelenstoet | uitgangen te Antwerpen, den 12, 15 en 19 Augustus 1923. | Le Cortège Des Bijoux | sorti à Anvers les 12, 15 et 19 août 1923. | The Jewels Pageant | display at Antwerp on August 12th, 15th and 19th 1923. [Antwerp: edited by Leclercq & De Ridder, 1923; title in black & vermilionorange]

Text & captions in Flemish, French, English; "Of this album one thousand copies have been printed numbered from 1 to 1000. This copy is N° 736."

4°: oblong: entire contents unnumb, but totals as follow: 1 blank f; 21 letterpress f(with col headlines & inits); 14 color pls, one per leaf; 55 b&w photos printed over tan panels, one per leaf. All 69 pls fitted with captioned tissues. There is a vermilion-orange logo on verso of last f. Limp, pale brown leather, creased, gilt titles & coast-of-arms on cover, with date; gold floral orns inside cover margins; ribbed moire pattern endp in gold. 23.8 x 31.6 cm(9 3/8 x 12 1/2 in). Cut. Teg. High-quality, pale tan, ribbed, watermarked text paper. JSL

Cont; blank f; 1/2tp; limit edit note & publ data; tp; committee; ackn; history of the pageant; advertising poster(col); text & plates. logo.

The spectacular, colorful, and elaborate pageant depicted herein was conceived by the diamond industry members of Antwerp, Belgium, and with the cooperation of the city and numerous countries that participated, was carried out on the dates shown. The principal event was a parade of horse-drawn floats, each designed and fitted out to reflect a theme appropriate to the country or otherwise; these floats are shown as artist's conceptions, in color, on the plates, and also appear in the black-and-white photo plates. Interspersed with these vehicles were numerous participating groups and musical bands, officials, and other marchers. Among the floats were a South African exhibit, simulating the working of a diamond mine, another from the Congo along the same lines, and still another commemorating Louis Van Bercken by showing his workshop upon the float. Among the photographs are those showing persons sent to represent their countries of organizations, several civic organizations, and in the Indian contingent, even several elephants were included. There may have been a cheaper issue of this book but I know of none, however, see the similar work below.

3298. -----1923

[Antwerp City coat-of-arms] | Stad Antwerpen 1923 Ville D'Anvers | Juweelenstoet [underlined] | Jewels Pageant | Cortège Des Bijoux [underlined] | Photos et édition par | S.Polak, Bruxelles | Reproduction interdite.

Cover title only. Edgestapled: blank f + [1]f + [31] photo pls + [1]f. Oblong. Pale gray, thick textured wrap, title on front in dk blue ink; paler gray cloth spine. 23.9 x 31.8 cm(9 3/8 x 12 1/2 in). Flush cut. JSL.

Cont: cover title + blank f; text title & committees; pls; print data.

This version of a pictorial album of the Jewels Pageant shows the floats and procession from the same vantage point in a large square in the City of Antwerp; in many instances, the quality of the photographs is better than in the version above but there are no color illustrations.

3299. -----1923

Stad Antwerpen · 1923 · Ville D'Anvers | Juweelenstoet 12-15-19 Augustus | Aout | August | Antwerp Festivals | Jewels Pageant | Cortege Des Bijoux | [cover ill] | Prijs | Prix | Price | Fr.3.- Imprimerie Osan & Dralans, Anvers Officieel Programma | Programme Officiel [Cover title]

Centerstapled: [24], 32, [24] p; 15 designs of floats. Col wrap. 27.2 x 21.4 cm(10 3/4 x 8 3/8 in). USGS Kunz Coll, GS 34-820.

The official program.

3300. K.

The | Diamond Fields | Of | South Africa; | with | Notes Of Journey There And Homeward, | And | Some Things About Diamonds And Other Jewels. | [rule] | By | One Who Has Visited The Fields. | [rule] | New York: | American News Company, | 119 Nassau Street. | 1872.

Another reference, not citing its authority, gives the author as J M Williams; the "K." appears at foot of preface.

12°: [2 blank], vi, p 8-238 + [4 blank]p; 5 text fig. Black or red pebbled cloth, deeply embossed blind orn frames on covers; gold lett, rules on spine, small gold oak-leaf-acorn orn under title. Pinkish-tan endp. 18.4 x 11.4 cm(7 1/4 x 4 1/2 in). Cut. LC 6-16887 rev. JSL.

Cont: 2 blank p; tp; publ data; tab cont; pref; 13 chs; append (biblio, p 231-8, 59 entries); 2 blank f.

Early and valuable firsthand account of the newly-discovered diamond fields of South Africa, along with the author's narratives of the trips taken to and from the continent to New York City. Thus the initial chapters describe his steamer voyage, travel to the Vaal River alluvial diggings, his experiences there, and his return trip to the United States. Commencing with Ch 9, p 130, and proceding to the end, he discusses diamonds and other gemstones, and finishes with a chapter on large diamonds. This part takes up about half the text and is apparently an attempt to increase the size of the book because the information is neither novel nor particularly useful; the true value lies in the first half. The bibliography, probably added to enhance the apparent stature of the work, is marred by numerous misspellings and inclusion of trivial references. Mendelssohn notes "the journey was made soon after the discovery of alluvial diggings and the dry mines, and mention is made of "Colesberg Copay [Kopje]", "Clip Drift [Klipdrift]", "Kuskamana," "Sivenelle," and other localities. The account is very interesting, and affords a good description of the exciting days of the early mining camps. The writer left the fields in 1871, at which period he estimated that 5000 labourers were employed in the mined." This work is rare.

3301. K., J.

Wieder Neu aufgerichtete und vergrösserte | in Zwey Theilen angewiesene | Curieuse | Kunst= und Werck=Schul/ | Deren Erster Theil meistens allerley Erdenckliche/ | nutzlich= und bewahrte Feuer=Künste | vorstellet: | Als I. Die wahre Erkäntnus der Ertzen und Metallen/ wie Sol= |...[5 lines]...| II. Die schöne Form=Kunst/Bereitung guter Feuer=beständi= |...[4 lines]...| III. Allerhand schöne Glas=Kunst/wie man schönes Crystal= |...[7 lines]...| IV. Von denen natürlichen Edelgesteinen/derselben Güte/Tu= | genden und Preiss/ dann auch von Perlen/Corallen und noch viel anderen sonst | werth=geachten Steinen und preciosen Dingen mehr. | V. Allerley schöne ungemeine Chymische Secreta und Medici- |...[3 lines]...| Ein Werck so allen kunstliebenden dienlich und nutzlich/mit grosser Müh und Fleiss zusam̄en= | getragen selbst sehr viel davon experimentirt/und endlichen aus Christlicher Liebe mit- | getheilt und am Tage gegeben durch | J.K. sonderbaren Liebhaber der Edlen Chymiae und anderer natür= | liche Kunst= und Wissenschaften. | [rule] | Nürnberg/in Verlegung Johann Ziegers/Buchhändlern. 1705. [title in red & black]

Facing engrav pictorial title, symbolizing discovery of nature's secrets; explan of same (in verse).

4°: [8], 1357, [57]p; many text woodcuts; woodcut orns, inits. 20.6 x 16.4 cm(8 1/8 x 6 1/2 in). Cut. USGS Kunz Coll.

Cont: blank p; engrav tp; tp; caption of engrav tp; pref; text; tab cont; index.

An encyclopedia of every imaginable process involving the use of fire or melting in I Ores and metals, how to recognize them, test them, and concentrate them, etc, II How to make beautiful shapes and sculptures by casting, III Making glasses, IV Gemstones, natures, descriptions, imitations, etc, and V Chemical secrets and medicines. Strangely enough, while information on gemstones first appears on p 982-97, here treating diamond, spinel, garnet, sapphire, emerald, beryl, opal, and others in short descriptive chapters which include remarks on lore, especially as it concerns imagined medical usefulness, a much larger formal presentation on gemstones appears on p 1007-71 of the 4th book. Here are taken up the identification of gemstones, their properties, magical and medicinal virtues, principal species and varieties, sources, values & prices, and other information. Another chapter discusses pearls in the same manner, as does another chapter on coral and a fourth on other gemstones and ornamental materials as lapis lazuli(with a discussion on how it is made into ultramarine pigment), agate, serpentine, figured stones, nephrite, alabaster, fabulous stones, fossils, and bezoars. There are tables of prices for rubies and pearls. On the whole, this treatise is a hodge-podge, uncritically chosen, and presented in disorganized fashion.

3302. KAEMMERER, PAUL Studien über Asterismus. *Zentralblatt Min*, 1915, 524-42, fig 1-17; 546-51., fig 18-22. JSL. Develops mathematical relationships among the light streaks noted on polished surfaces of asteriated rose quartz; gives formulas for predicting positions of reflections from parallel inclusions and fully explains the phenomena noted by Kalkowsky, *Zs Krist*, 55, 1915, 23-50.

3303 KAGAN, YULIYA OSWALDOVNA

Ju. Kagan | Western European | Cameos | in the Hermitage Collection | Aurora Art Publishers. Leningrad [1973]

Above title recto, another facing title in Russian.

8°: 95, [l]p+ 60 glossy f bound-in(105 col & 72 b&w photos), the first f is plates tp, the last f bears publ data. White cloth, cut-out col photo pasted into oval depression on cover; title in gray; gray spine title. Tan & gray-flecked endp. Text paper pale greenish-tan; pls on glossy white stock. 16.9 x 12.9 cm(6 5/8 x 5 1/8 in). Cut. In plain cardbd slipcase, with gold frames, white lett. JSL.

Cont: museum tp; Russ tp; Engl tp; publ data; Engl pref; Russ pref; biblio(p 50-4, 29 entries); cat in Engl; cat in Russ; pls tp; pls; author data; publ data.

Describes 103 cameos of exceptional beauty and quality from among those in a vast collection housed in the Hermitage Museum in Leningrad. Gives history of collection, a summary of the glyptic art, famous cameos and their engravers, and other remarks, followed by the catalog in which each gem is described, material given size, provenance, etc, with reference to pertinent literature. The plates showing gems in color, many still in their settings, are of very good quality; smaller b&w photos are of gems in actual size.

3304. KAGAYA, BUNJIRO Application of goniometry to gemmology, special regard to identification of cut diamond. *J*

Min Coll Akita U, ser A, vol 4, no 3, Aug 1968, p 1-21, 13 fig, 3 tabs. JSL. By measuring reflections from facets of cut diamonds in a two-circle goniometer and plotting reflection poles on a gnomonic net, much in the same way that a real crystal is measured and plotted, the slight inaccuracies or variations in a cut gem will provide a unique "fingerprint" that can be used to identify that particular cut gem. *Min Abstr*, 20, 4, 1969, 296.

3305. KÄHLER, HEINZ

Monvmenta Artis Romanae | Begründet von Heinz Kähler und Jacques Moreau | Herausgegeben von Heinz Kähler | IX | ALberti Rubeni | Dissertatio | De Gemma Avgvstea | Neu herausgegeben, übersetzt und erläutert | von | Heinz Kähler | [logo] | Gebr. Mann Verlag · Berlin [1968]

4°: 39, [l]p + [12] glossy f bearing 28 photos on 24 plates; a cut-out & mounted col photo of the gem, nat size, on a glossy f on p[6] + fold engrav facs of the gem, larger than nat size, tip-in between p 20-21. Pale gray charcoal-type paper over bds, cover title, spine title. 29.2 x 21.8 cm(11 1/2 x 8 5/8 in). Cut. JSL.

Cont: series tp; tp; publ data; dedic; color pl; facs of original tp; facs of original text; transl; tip-in facs fold plate; discussion; notes; index of pls; ackn; pls section.

Translates Albert Rubens' dissertation on the extremely large cameo called the *Gemma Augustea* which is now in the Kunsthistorisches Museum in Vienna. There is a copious commentary, including the history of the gem, and the possible significance of the numerous figures that appear upon it. Biographical notes on Rubens(1614-1657) are furnished; he was an antiquary in Brussels and the eldest son of the celebrated Painter, Peter Paul Rubens (1577-1640). Handsome, well-designed work. For the original, see under RUBENS, A.

KAISER, FRIEDRICH WILHELM ERICH(1871-1934)

Ger geol; b Essen; grad physics U Bonn 1894; geol Prussian Geol Survey 1900-04; 1904 succeeded R Brauns as prof mineralogy & geol U Giessen; 1920 prof geol U Munich; joint editor *Zs Krist*. Obits L J Spencer, *Min Mag*, 24, 153, 1936, 292-3; *Zentralblatt Min*, Abt A, 1934, 97-112, portr.

3306. -----1926

Die Diamantenwüste | Südwest-Afrikas | Zugleich | Erläuterung Zu Einer Geologischen | Spezialkarte Der Südlichen Diamantfelder 1:25 000 | Aufgenommen Von W.Beetz Und E.Kaiser | Mit Beiträgen Von | W.Beets, J. Böhm, R.Martin †, H.Rauff, M.Storz, | E.Stromer, W.Weissermel, W.Wenz, K. Willmann | Bearbeitet Von | Erich Kaiser | In 2 Bänden | Band I[-II] | Mit 13 Karten. 4 Tafeln | Und 59 Abbildungen | [logo] | Berlin 1926 | Verlag Von Dietrich Reimer (Ernst Vohsen)

4°: I: X, 321, [1]p; col litho front pl bound-in; 3 photo pls; 13 geol maps(11 part col) in back cover pocket; 59 fig; many tabs. Tan, unfin cloth, brown lett spine; title & scenic sketch on cover(s)(I. Mts, II. sand dunes). Heavy, pale blue endp. 31.5 x 23.5 cm(12 3/8 x 9 1/4 in). Cut. Dm 120.-(for both vol). USGS 26-144. JSL.

Cont: pl; tp; publ data; dedic; fwd; index map (to other maps); tab cont; 12 chs; press data; maps.

II: VII, [1 blank], 535, [1]p; col litho front pl bound-in; 3 photo pls; 99 fig; 32 stereoscopic views in two pockets inside back cover; at end of text 48 photo pls, each with explan f, bound-in.

Cont: pl; tp; publ data; tab cont; Chs 18-34; publ data; pls section; stereos in back cover pockets.

Large, handsome, high-quality materials & design; on the geology of the diamondiferous surface deposits of South West Africa, stretching along the Atlantic coast from Elizabeth Bay southward for a distance of ca 50 miles. Topics: topography, areal geology, paleontology, anthropology, petrography, and some material on the diamond deposits and the diamonds themselves. An excellent, extended review by F L Ransome in *Econ Geol*, 21, 1926, 734-6, which, however, says little about diamonds. For the gemologist, the work is disappointingly brief in respect to diamonds, only p 329-42 containing information on alluvial deposits, methods of working for diamonds, recovery, associated minerals. Kaiser described these diamonds in his "Ueber Diamanten aus Deutsch-Südwestafrika," *Centralbl Min*, Jg 1909, no 8, 235-44, 4 fig.

KALININ, D V, see DENISKINA, N D, et al

KALIX, Z, see BARRIE, J

KALKOWSKY, ERNST LOUIS (1851-1938)

Ger geol; b Tilsit; grad U Leipzig 1874; prof mineralogy geol U Jena 1886. Obit L J Spencer, *Min Mag*, 25, 1939, 293. Pogg 4, 724.

3307. -----1906

Geologie des Nephrites im südlichen Ligurien. *Zs Dt Geol Ges*, Jg 1906, Bd-58, Aufsätze, H 3, 307-78, pl(geol cross-sect). Also issued in pale gray print wrap, 74 + [2]p, pl, 22.2 x 14.4 cm(8 3/4 x 5 5/8 in). Cut. JSL. Geology of a region SSE of Genoa, Italy where nephrite was found as alluvial pebbles and in situ: discoveries, structure & mineralogy of nephrites from eleven deposits; suggested origin. Author disparages quality of the material but is convinced that gem-quality material will be found.

3308. -----1906

Der Nephrit des Bodensees. *Sitzungsber u Abhandl Naturwiss Ges "Isis" in Dresden*, Jg 1906, Abhandl H 1, 28-41, 1 ill. Also separate. JSL. Investigated mineralogically 97 nephrite artifacts from various lake-dweller sites in Switzerland. Amounts found, distribution, forms of artifacts, alteration, varieties, ie, "common stony nephrite," "homogeneous schistose nephrite," and "wavy textured nephrite ." Thin-section examinations, inclusions identified.

3309. -----1915 Opaleszierender Quarz. *Zs Krist*, 55, 1915, 23-50, Pl III showing 8 inclusion photos. Studies chatoyancy, its nature, and its relationship to inclusions in quartz, and describes type inclusions, methods of investigation using clean thin-sections and spheres, 263 polished pieces in all, taken from 192 pegmatite quartz samples from 100 localities. The spheres numbered 106 and ranged in diameter from 10 mm to one of 111 mm. The phenomena of asterism are explained, also "light poles," curves of asterism, "asterites" or star-like flake inclusions, "miculites," and others. Lists occurrences of quartz capable of displaying asterism.

3309A. KALLUS Die Diamantvorkommen in Deutsch-Südwestafrika und ihre Bedeutung für das Schutzgebiet. *Zeitschrift für Kolonialpolitik, Kolonialrecht und Kolonialwirtschaft*, Berlin, 11,

12, 1910, p 944-60; 12, 1, p 29-58. Not seen; from PJ Hugo et al, 1581.

KALOKERINOS, ARCHIE

Australian MD; b Glen Innes, N S Wales; grad U Sydney; med duties in Engl; field practise in Collarenbri, NSW; in 1967 practising in Sydney; mbr Roy Soc NSW

3310. -----1967

In Search Of Opal | By Archie Kalokerinos | Ure Smith · Sydney · London [Publ in Gt Brit 1967 & in Austral; col photo on title, the latter spread over 2 p]

8°: 137, [7]p; col photos on 12 & full tp's; 3 diagrams; 10 doublep col photos; 75 single col photos. Very pale gray cloth-type paper over bds, gold lett spine. Endp in color play of opal. Col dj, 2 photos, resume, vita. 22.5 x 17.9 cm(8 7/8 x 7 in). Cut. Thick, semi-glossy paper. Aus $ 6.95, later changed to $7.95. Nat Libr Austral Reg No Aus 67-941; LC 67-28119. JSL.

Cont: 1/2tp; tp; publ data & dedic; ackn; tab cont; ill list; 13 chs; classification scheme; col photos with captions.

In this exciting, eminently readable, yet factual work, the author describes his adventures in opal mining on the Coober Pedy field after deciding to leave his medical practise at Lightning Ridge, and try his hand at searching for the precious opal he had come to understand and cherish. The story is far from the usual romantic tenor and the scientific training of Kalokerinos is apparent in his restraint in descriptions and the accuracy of his notes on the structure of the deposits. One of the most valuable features of his book is the chapter entitled "How to Dig for Opal at Coober Pedy," p 55-65, in which he provides several diagrams showing localization of opal deposits along faults or "slides," and how such disruptions may be identified and exploited. Elsewhere the book contains equally valuable practical advice with all of it magnificently illustrated by color photographs of very high quality. Rev *Austral Gemm*, 10, 1, 1968, 27-30, "has something of the quality of a documentary." A reprint ca 1977, bears a paper label on p [4] deleting the Australian registry number and giving instead ISBN 0 7254 0079 X; dj price now absent.

3311. -----1971

Australian Precious Opal | By | Archie Kalokerinos | Nelson [Melbourne: Thomas Nelson, 1971]

8°: 51 p; 2 diagrams; 134 col photos on 8 bound-in glossy f. Black cloth-type paper over bds, entirely plain; col dj with many col photos, resume, vita. 27.9 x 20.6 cm(11 x 8 1/8 in). Cut. No flyleaves. Aus $4.95. ISBN 17 001960 8. JSL.

Cont: 1/2tp; tp; publ data; tab cont; ackn; fwd; 13 chs; index; blank p.

In many respects this book resembles the author's first work. It treats the principal opal fields of Australia, the nature and formation of opal, the variety of color change and the origin of color, classification of precious opal, patterns in opal, the cutting of opal gems, doublets and how they are made, also triplets, using chips, mining opal, defects of opal, and the valuation of opal gems. Perhaps the strongest feature of this work is the attempt by the author to sort and put into some kind of order the bewildering variety of coloration and color-patterns to serve as a common language in describing opals and assessing the value of cut pieces. The color photographs of square format, 8 to a page, are almost all of opal varieties in rough and cut, and include a few scenes in the fields, and showing a few steps in cutting. A very useful reference for the miner, cutter, collector and salesman. Rev *G & G*, 14, 1, 1972, 30; *Austral Gemm* 11, 4, 1971, 24; J Gemm, 13, 5, 1973, 190-1, "the best book on Australian opal so far to appear."

3312. -----1972, New York edit

Australian Precious Opal |...| Arco Publishing Company, Inc. | New York [1972]

Exact reprint, including binding, dj; LC 72-3320; ISBN 0 668 02684 7. U S A $6.95.

3313. -----1981, German edit

Archie Kalokerinos | Opal | Edelstein der tausend Farben | Ein Buch für Sammler | und Liebhaber | [logo] | Kosmos | Gesellschaft der Naturfreunde | Franck'sche Verlagshandlung | Stuttgart [1981; "Kosmos-Edelstein-Monographie;" "Aus dem Englischen übersetzt von Rudolf Mertens."]

8°: 139, [5]p; col endpapers includ in pag; front col photo spread over p [6] and part over title; 142 text col photos; 3 fig. Col paper, silver, & col photo, over bds; resume back cover. 19.5 x 16 cm(7 5/8 x 6 3/8 in). Cut. DM 39.50. ISBN 3-440-05021-1. JSL.

Cont: col endp; 1/2 tp; front; tp; publ data; tab cont; ackn; fwd; text; index; advert; blank p; col endp.

Considerable additional matter: 19 extra col photos, many of Mexican opals; historical opal occurrences, worldwide, p 109-29; synthetic opal by Mertens, p 130 with 4 col photos; glossary p 132-6. The chapter on classical & historical occurrences, includes Hungary(now Czechoslovakia), Mexico, Central America, Brazil, USA, Quality of col photo reproduction much better due to use fully glossy paper; attractive design, styling, etc, altogether a large improvement. Rev *J Gemm*, 18, 2, 1982, 171; *Zs Dt Gemm Ges*, 31, 1/2, 1982, 101.

3314. KALUGIN, P Mursinskie i Alabashinskie kopi tsvetnykh kamney na Urale. *Zapiski Imperatorskago (S.Peterburgskogo) Mineralogicheskogo Obshchestva*, 24, 1888, 253-60. On the Mursinsk & Alabashka pegmatite gem mines in the Urals; not seen.

3315. KAMIL, FRED The diamond underworld. London: Allen Lane, 1979. Not seen. From E J Epstein, *The Rise & Fall of Diamonds*, p 280, which see, "Fred Kamil, the Lebanese mercenary... has also written a book about smuggling ...which is of great interest since Kamil was one of De Beers' diamond soldiers."

KAMINSKIY, F V, see ORLOV, Yu L

3316. KAMINSKIY, PHELIKS VITOLDOVICH

Ph.V.Kaminskiy | Almazonosnost | Nekimberlitovykh | Izverzhennykh | Porod | [logo] | Moskva "Nedra" 1984

Cementb: 170, [6] p; 39 fig; 44 tab. Bright blue wrap, white cover title; white spine title; back cover white with blue title, etc. 21.5 x 14.4 cm(8 3/8 x 5 5/8 in). Cut. 1 r., 80 k. 830 copies. JSL.

Cont: tp; resume; pref; text; summary; biblio(p 168-71, 50 entries, 35 in Russ); tab cont; publ data; other press publs.

Geology, petrography, mineralogy, of non-kimberlitic origin diamonds.

3317. KAMLAH, KURT(1866-) Die Bernsteinfrage. Berlin: Heymann, 1898. 8°: 38 p. Not seen; from G R v Bock, p 176.

3318. -----1922

Das | Geheimnis der | Edelsteine | von | Kurt Kamlah | [orn] | [taper rule] | Verlag von | Schmitz & Olbertz in Düsseldorf | 1922

8°: stapled gatherings: 78, [2]p. Brownish-yellow paper over bds, black title on cover. 17.9 x 11.9 cm(7 1/8 x 4 5/8 in). Cut. USGS Kunz Coll, GS 33-217.

Rambling dissertation on the nature of gemstones, their place in the Cosmos, sources of their powers, and the fund of curious lore that has accumulated around such implied powers through the passage of centuries. While much of this work is interesting and with bits of information not to be found elsewhere, it is overly-larded with metaphysical speculations of the author, and numerous asides, all making for difficult reading. This, plus the rarity of the work, suggests that the treatise was written for a restricted audience.

3319. KAMPEN, P N VAN. De paarl- en paarlmoervisscherij, langs de kusten der Aroeeilanden. *Mededel Visscherij-Station*, Batavia, 1908, 2, p 1-80. Not seen. Pearls and pearl-fishing along the coasts of the Aroe Islands(New Guinea).

3320. KANE, ROBERT E Graining in gem diamond. *Internat Gem Symp Proc 1982*, which see, p 219-35, 44 fig(mostly col photos). Causes of described; surface effects; effects upon saleability of finished stones.

KAPLAN, G, see LEGRAND, J

KAPLAN, L, see KRAUS, E H, et al, 1942

KARABACEK, JOSEF, Ritter VON(1845-1918)

Austrian noble, orientalist, with spec in numismatics; PhD Vienna 1868; prof oriental hist; director court library, Vienna. N Dt Biogr, 11, 140.

3321. -----1893

Sitzungsberichte | Der | Kais. Akademie Der Wissenschaften In Wien | Philosophisch-Historische Classe. | Band CXXIX. | [double-rule] | V. | Ein Römischer Cameo | Aus Dem | Schatze Der Aijûbiden-Sultâne | Von | Hamâh. | Von | Josef Karabacek, | Wirkl. Mitgliede Der Kais. Akademie Der Wissenschaften. | [rule] | Wien, 1893. | In Commission Bei F.Tempsky | Buchhandler der Kais. Akademie Der Wissenschaften.

8°: [1]f + 22 p; 1 text fig. Yellowish-tan print wrap, cover title, other publs back cover. 25 x 15.5 cm(9 7/8 x 6 1/8 in). Uncut. JSL.

An unusual oval, copper-alloy medallion is shown to have been cast from a similar gem, probably onyx, with the exterior bezel engraved with an Arabic inscription. The bust is believed to be that of Constantius, son of Emperor Constantine. Far more interesting, however, is the following discourse on the love of Moslems of the upper classes for jewels and objects of gemstone ornament produced in workshops subsidized by the upper classes; numerous examples are given as well as quotations from ancient Arabic writings that describe such objects and the high regard in which these elaborate and sophisticated lapidary masterpieces were held.

3322. KARNOSZHITSKII, A N Kristalloopticheskiya izsledovaniya turmalina[Krystallographisch-optische Studien am Turmalin]. *Zapiski Imperatorskago S. Petersburgskago Mineralogischeskago Obshchestva*, 1891, 27, 209-88, 3 litho pls. Also separate: [2], 80, [2]p, 3 litho pls, pale gray printed wrap, 24 x 15.6 cm(9 1/2 x 6 1/8 in). Cut. Detailed studies on the optical anomalies observed in sectors of tourmaline crystals cut in plates parallel to basal plane(c-0001).

3323. -----1895 Evgenie-Makismilianovskie mineralnye kopi i nekotorye drugie novye ili malo issledovannye mestorozhdeniya mineralov v oblasti Srednego Urala. Ibid, 1895, 34, 1, p 1-160. Also rendered in German, ibid, 1896, as "Die Eugenie Maximilianowschen Mineralgruben und einige andere theils neue, theils wenig untersuchte Fundorte verschiedener Mineralien im Gebiete des mittleren Uralgebirge." Not seen; emerald mines of the Urals.

3324. KARNY, H Optische Untersuchungen zur Aufklarung der Struktur der Muschelschalen. *Sitzungsberichte Akademie Wien, Math-Naturwiss Kl*, 122, Abt 3, 1913, 207-59. Not seen. Optical studies on mussel shell to elucidate fine structure.

KARSTEN, DIETRICH LUDWIG GUSTAVUS(1768-1810)

Ger mineralogist, mines adminstrator; b Butzow; prof science U Halle; mineralogy & mining chair School of Mines, Berlin, 1790; prolific writer in mineralogical, economical geology, related subjects. *Biogr Univ, Suppl*, 68, 419-21; Pogg I. 1225.

3325. -----1789 [The cabinet of minerals of Nathan Gottfried Leske], Leipzig, 1789, 2 vols. Not seen; according to Partington 3, 662, the Leske collection of minerals had belonged to Abraham Werner, and upon his death came into the possession of N C Leske(1757-1786), professor in Leipzig and Marburg; it was purchased upon the recommendation of Richard Kirwan(1733-1812) with a grant from the Irish Parliament in 1792 and by members of the Dublin Society, who founded a natural history museum in the same year in which the collection was placed; the collection is now in the National Museum of Ireland in Dublin(U Burchard & R Bode, *Mineral Museums of Europe*, Phila, 1986, p 137).

3326. -----1798

A | Description | Of The | Minerals | In The | Leskean Museum. | By Dietrich Ludwig Gustavus Karsten. | Philosophiae Doctor, Inspector General Of The | Mines Royal Of Prussia, Professor Of Mineralogy | In The Mining Academy At Berlin, Superinten- | Dant Of The Royal Museum, Member Of The | Society For Promoting The Science Of Mining, | &c. &c. &c. | Translated | By George Mitchell, M.B. | [taper rule] | Vol.I [-II]. | Containing The | Characteristic And Systematic | Collections[- Geological, Geographical, And | Oeconomical Collections]. | [taper rule] | Dublin: | Printed By R.E. Mercer And Co. Booksellers | And Printers To Trinity College. | [rule] | 1798.

4°: I: x, 369, [1 blank]p; a^4, b^2, B-Zz^4, 3A, 2A2, [2] unsigned f, 3B; II: [5] p + p 374-667, [1 blank], [1], [1 blank]p;

tp supplied; $3B^3$, 3C-$4P^4$, $4Q^2$; errata f supplied. 20.5 x 13 cm(8 1/8 x 5 1/8 in). Cropped.JSL. Agassiz III, 344.

Cont: I: tp; pref; text tp; text; blank p. II:tp; text tp; text; index; blank p; errata; blank p.

At the time, the Leske collection of 7,331 specimens was one of the largest and most important in Europe; it occupied a unique position among such collections because of having been studied by Kirwan and used as the basis for his landmark *Elements of Mineralogy*, first edit 1784, which see. The present work is prefaced by the remarks of its translator who notes that Leske was "one of the earliest and most distinguished pupils of the celebrated Mr. [Abraham Gottlob] Werner, upon whose principles and with whose assistance it was arranged between the years 1782 and 1787. Upon the decease of Mr.Leske it was revised, enlarged and described by Mr.Karsten, also a disciple of Mr. Werner's... to him we owe this Catalogue which was printed in 1789." The collection is arranged into five sub-collections: I Characteristic Collection, or specimens exhibiting certain external features and properties that serve to identify them, II Systematic Collection, or specimens that appear to be related placed together into classes and genera, III Geological Collection, or specimens that are largely rocks but also including alluvia, IV Geographical Collection, specimens from various countries, and V Oeconomical Collection, or specimens representative of applications in the arts, construction, fuels, fluxes, salts, and the like. Only a few gemstones, per se, are listed in the last collection(p 624) but many other ornamental stones are to be found in this section, not to mention specimens of gemstones in the rough which are represented in several of the collections, notably in the "Siliceous Genus, of the First Class - Earths And Stones," p 38-124, and including diamond, chrysoberyl, zircon, garnet, ruby, sapphire, topaz, beryl, tourmaline, crystalline quartzes, cryptocrystalline quartzes of every description, obsidian, cat's-eyes, lapis lazuli, a large number of agate specimens(treated separately), jaspers, opal, labradorite, and hornblende. Other materials are mentioned in other sections of the book. In 1832, Charles Lewis Giesecke published "*A Descriptive Catalogue of a New Collection of Minerals in the Museum of the Royal Dublin Society*, Dublin, R.Graisberry, 268 pages, and encompassing 1,332 specimens, including many that he had collected in Greenland, but a comparison of the entries with those of Karsten show no resemblances beyond superficial ones, and it is concluded that Giesecke's use of the word "new" means just that.

3327. KARUNAKARAN, C & MURTHY, S Diamonds. *Indian Minerals*, 28, 4, 1974, 23-37. Not seen. Publ by Geol Survey of India.

3328. KASHKAI, M A & MAHMUDOV, A I

Mirali Seidali Ogly Kashkai, | Adkham Ismail Ogly Makhmudov | Dragotsennye I Poludragotsennye | Tsvetnye Kamni | Baky · Azerneshr · 1973 | [dot] | M.A.Kashkai, A.I.Mahmudov | Precious, Semi-Precious | Coloured Stones | Baku · Azernesher · 1973 [Azerbaidzhan Dovlet Neshyiiaty]

Above is Russ/Engl title, verso; recto: in Azerbaijani.

8°: 343, [1]p; 20 col photos on 6 glossy bound-in f; 2 b&w photos on 1 tip-in glossy f; 122(actually 123) fig; 3 unnumb text portraits; tabs. Tan leatherette cloth, blind tree design on cover & golf lett; gold spine title. 21 x 16.2 (8 1/4 x 6 3/8 in). Cut. 1 r. 73 k. 3100 copies. JSL.

Cont: logo; Russ tp; Azerbaijani tp; summary; pref; text; Russ summary; Engl summary; biblio(p 333-40, 225 entries); tab cont; publ data.

General work on gemstones: theory and description, and the first in the Azerbaijani language since very early MSS. The first part treats crystallography, mineralogy, origin, geochemistry, properties(much on color and its causes), uses of gemstones, esp in decoration of buildings, monuments, sculpture, and with descriptions of mosaic work and the lapidary treatment of gemstones. The second part describes major & minor gemstones, and some decorative materials, with sections on pearl, coral, amber, and jet. There are good summaries of the contents in Russian & English, the latter with numerous spelling errors and awkward turns of phrase. The bibliography contains only a few entries that are other than Russian or Azerbaijani. The book is poorly made, and quite poor reproductions of the photographs are the rule.

3329. KAŠPAR, JAN Doc.Dr.Jan Kašpar. Synthetické Korundy. Jejich Výroba, Zpracování a Použití, Praha 1951. Prümyslové Vydavatelství. At head of title: "Kniznice Sklářského Prümyslu, DT 666.232:622.365. Svazek 5." Edgestapled offprint: 112 p; 88 fig(photos & diagrams); many tables. Col printed wrap. 20.5 x 14.5 cm(8 1/8 x 5 3/4 in). BM(NH). Synthetic corundum and methods of manufacture in 34 chapters: natural corundum, properties, etc, history of synthesis attempts, detailed comparison between natural & synthetic corundum, production of boules and methods by which they are oriented, sawed, and worked into such items as jewel bearings and spinning guides. Biblio p 105-8, 76 entries.

3330. KASSOY, I, INC

The Histories of Some Famous Diamonds | [Photo, Queen Mary of England & note] | Cullinan History |...[9 lines on same]...| I.Kassoy, Inc. Diamond · Jewelers Supplies and Instruments | 30 West 47th Street. New York 36, N.Y. | JUdson 2-3260 [nd, pre-l967]

Loose f, top-fastened with brass split-rivets: 23, [1 blank], [1], [1 blankl, [1], [1 blank]p; 5 advert fig; 3 laid-in pls; 2 photos back cover. Thick white paper wrap, title & photo on front cover; 2 photos back cover. 28 x 21.6 cm(11 x 8 1/2 in). Cut. JSL.

The author, Alex Kassoy, states "I wrote the pamphlet as a promotional piece based on material furnished by Diamond Promotion Dept N.W.Ayres + Co..."(pers comm). The diamonds are Cullinan, Dresden Green, English Dresden, Eugenie, Excelsior, Grand Conde, Jonker, Prince Edward of York, Star of Este, Star of South Africa, Stewart, and Tiffany. The last two leaves contain advertisements plus index and several photos of famous diamond glass replicas offered for sale by Kassoy.

KATAYAMA, NOBUO, see JOURNAL OF GEOGRAPHY

3331. KATHAN, MELVIN L

Working With Agate | - Tells You How - | [dot] | Melvin L.Kathan | [orn] | Written For The Amateur Gem Cutter | Price - 25¢ [cover title; priv publ, Portland, Oregon; "First edition July 15, 1949"]

Centerstapled: [1 blank], 14, [1 blank]p; ill inside front wrap. 15.3 x 11.1 cm(6 x 4 3/8 in). Cut. Pale green wrap, text paper pale blue. JSL.

Very early, elementary descriptions of agates, particularly in the northwestern states, with instructions on how to collect them, saw, grind, dop, lap, sand, polish, to make cabochon gems, polished flats, etc. A popular work that sold many copies.

3332. -----1950, 2nd edit

Working | With Agate | [orn] | Tells You How | [orn] | Written For The Amateur | Gem Cutter | [orn] | Second Edition | [orn] | 30 Cents [cover title]

Centerstapled: 16 p; 3 photos, 2 vignette cartoons. Pale green wrap. 18 x 11.5 cm(7 1/8 x 4 1/2 in). Cut. Essentially identical. JSL.

3333. -----1957, 8th edit

Working With Agate | Melvin L.Kathan | [rect framed crystal drawing] | Tells And Shows You How | [rule] |...[4 lines]...| [rule] | valuable Information For The Amateur | And Expert Lapidarist | Eighth Edition | [rule] | One Dollar [cover title; enclosed in blue ruled frame, blue & red lett & orns]

Centerstapled: 68 p; 10 drawings, 26 photos. White wrap. 17.6 x 12 cm (6 7/8 x 4 3/4 in). Cut. JSL. Revised, added material.

3334. -----19--?(nd), 9th edit

Working | With Agate | Melvin L.Kathan | Ninth Edition | [square vign of cut gem] | Valuable Information | For The Amateur And Expert Lapidarist |...[4 lines]...| One Dollar | Tells And Shows You How [Cover title]

Centerstapied: 64 p; portr of author, 9 vignette cartoons, 26 photos, 2 line drawings. White glossy wrap, blue & brown bands, lett in white, blue & brown; photo & vignettes on back cover. 20.8 x 13.4 cm(8 1/8 x 5 1/4 in).

Intervening editions above not examined; this edition greatly expanded, covering varieties of agate, sawing, grinding, sanding, polishing, tumbling, coloring agate, displaying specimens, polished objects, dopping, flats, sphere-making, baroque jewelry, building a tumbler, drilling, and how to buy equipment. An insert of [6]p briefly describes 10 agate localities in Oregon.

3335. KATINAS, V

Upravlenie Geologii Pri Sovete Ministrov Litovskoy SSR | Litovskoy Nauchno-Issledovatelskiy Geologorazvedochniy Institut | V.Katinas | Yantar | I Yantarenosnye Otlozheniya | Yuzhnoy Pribaltiki | (Trudy, vypusk 20) | [logo] | Izdatelstvo "Mintis" · Vilnyus - 1971 [Russ title]

Department Of Geology Under The Council Of Ministers of Lithuanian SSR | Lithuanian Scientific-Research Geological Survey Institute | V.Katinas | Amber | And Amber-Bearing Deposits | Of The Southern Baltic Area | (Transactions, Volume 20) | [logo] | Publishing Office Mintis" · Vilnius - 1971 [Engl titlel

Geologijos Valdyba Prie Lietuvos TSR Ministrų Tarybos | Lietuvos Geologijos Mokslinio Tyrimo Institutas | V.Katinas | Pietų Pabaltijo | Gintaras Ir Gintaringos | Nuogulos | (Darbai, 20 tomas) | [logo] | Leidykla "Mintis" · Vilnius - 1971 [Lithuanian title]

8°: 150, [6]p; 60 fig(photos, diagrams, cross-sects,etc); fig 10 is a full-color glossy pl tip-in depicting a sectioned tree-trunk showing places where resin concentrates(includ in pag); 18 tabs(tab 13, fold, tip-in & not includ in pag). Pale gray cloth, gold title with black "G" on cover; gold spine title. 25.9 x 16.8 cm(10 1/8 x 6 5/8 in). Cut. 600 copies. 1 r 84 k. LC 72-338281. JSL.

Cont: 3 tps; summary & approvals; pref; 9 chs in 2 parts; summaries in Engl & Lith; biblio(p 147-51, 44 entries in Russ, 86 others, mainly in Ger); blank p; 3 tab cont; publ data.

Highly important study by Lithuanian geologist V.Katinas on native amber and its deposits, treating geology, origin, properties, forms, the inclusions, and the specific deposits as well as finds elsewhere than along the Baltic shores. The first part of the text discusses properties, the nature of fossil resins in general, amber specifically, animal & vegetable inclusions, the probable amber-producing wood, causes of heightened resin production, processes of resin flow and transformations, and transport into final sedimentary deposits. The second part is geological and examines the stratigraphy and characteristics of the amber-bearing sediments. The last chapter describes specific deposits. The large bibliography embraces most older treatises and articles as well as those of modern vintage but lacks paginations. Although rather poorly produced as is usual in the USSR, the numerous black & white photos show inclusions, rough pieces, surface textures, photomicrographs of sediments, and views of exposed formations. The single color plate of cross-sections of pine trunk is instructive and rather attractive. This work, printed in very limited number, is scarce.

3336. KATZ, RICHARD

Richard Katz | Ein alter Diamanteur. P[6]: "Separatabdruck aus Richard Katz, Kleinode der Natur, erschienen im Eugen Rentsch Verlag, Erlenbach- Zürich und Stuttgart." Nd, ca 1950? 8°: 100 p(p 1-4 blank), heavy white wrap, outer pale grayish-green inward-fold wrap bearing 2 small cut gems on cover, with outermost wrap of translucent paper, also inward-fold. 21.2 x 13.1 cm(8 3/8 x 5 1/8 in). Cut. JSL. Author's experiences with a certain Manoel De Pina, a diamond and precious stones dealer of Rio De Janeiro, in which considerable information on gems and precious stones is imparted along with the tale.

3337. KATZER, F Ueber den bosnischen Meerschaum. *Berg- u Hüttenmannisches Jb der kaiserlich-königlichen Bergakademie zu Leoben u Přibram*, etc, Vienna, vol 57, 1909, 65-88, figs. Not seen.

3338. KAUFMANN, CAROLE NATALIE Changes in Haida Indian argillite carvings 1820- 1910. PhD thesis, Univ Calif, Los Angeles, 1969. Not seen. Also: Functional aspects of Haida argillite carvings, in ethnic and tourist arts from the fourth world. Edited by Nelson H H Graburn. Berkeley: Univ Calif Press, 1977. Not seen.

3339. KAUNHOWEN, FRIEDRICH Der Bernstein in Östpreussen. *Jb Königl Preuss geol Landesanstalt u Bergakad zu Berlin*, 34, II, 1913. "Festschrift zum 12. allgemeine deutsch. Bergmannstage in Breslau, 1913." 8°: p 1-80, text map of E Prussia. 24.5 x 17 cm(9 5/8 x 6 3/4 in). Cropped. JSL. Abundantly referenced summary of chemical & physical properties of Baltic amber, causes of blue color noted in some specimens, the nature of gaseous, liquid, and other included matter, inclusions of flora & fauna, the primeval amber forest, geology of amber-bearing formations. A bibliography of 76 entries, p 76-80. Rev K Andrée, *Bernstein-Forschungen*, 1, 1929, 140. *Chem Abstr*,



Mineralogia polyglotta

von

Chr. Keferstein,

Königl. Preussischem Hofrathe.

Halle,

in Commission bei Eduard Anton.

1849.

3344. Keferstein's famous polyglot glossary of mineralogical terms, including gemstones and even the gems of the High Priest's breastplate!

1914, 8, 1515⁴; G R v Bock, 176. See also Kaunhowen's article on amber in Dammer & Tietze, *Die Nutzbaren Mineralien.*

3340. KAVANAGH, L R

Rockhounds | Handbook | of gemstones (Australia & | New Zealand) | L.R.Kavanagh [cover title; Rigby Ltd., 1969; "Rigby Instant Book G6915...35c."]

Centerstapled: 64 p; ch orns; 13 fig; 16 col photos on 4 glossy bound-in f not includ in pag. Heavy glossy col wrap, photos on both covers. 13.2 x 8.8 cm(5 1/8 x 3 1/2 in). Cut. Nat Libr Australia AUS 68-764. JSL.

Concise introduction to lapidary arts; particular attention to state of the art in Australia, advice on equipment & gemstones, how to get started, collecting, nature & properties of some gemstones, tumbled gems, other gems, simple jewelry, details on lapidary treatment of opal.

3341. KAY, JOHN & KAY, WALLACE GILBERT

The Diamond | Its History, Importance And Value | By | John Kay | First Edition | De Luxe | Compiled And Designed By | Wallace Gilbert Kay | [orn] | Published by | John Kay & Company | Direct Diamond Importers, Second | Floor Majestic Building, Detroit | New York London Amsterdam Paris [title in ruled frame; 1908].

4°: 46 p(first 2 p blank) + 12 blank]p; sepia tint portr photo pl (of John Kay?), cut out & mounted on pale brown paper rectangle, this tipped to text leaf + P cut-out tip-on pls, each in pale green frame; figs, ch orns. Pale grayish-green sheepskin spine, mottled brownish paper over bds; gold title in double-rule frame on cover. 15 x 11.4 cm(5 7/8 x 4 1/2 in). Teg, others untrimmed. Pale gray ink. JSL. There is a cloth non-deluxe version.

Cont: blank f; tp; publ data; pl; introd; text; the carat weight; famous diamonds; birthstones; blank f.

Issued by the company to advertise their diamonds: brief accounts of history & lore of diamond, famous diamonds, color, clarity, mines & mining, carat weight, and other topics. Plates mainly of famous diamonds but also several of jewels made by the company. Handsome, well-made and with useful information.

3342. KAYSER, EDUARD

Beschreibung | der | Mineraliensammlung | des | Herrn Medicinalrath Bergemann | zu Berlin. | [rule] | Erste und zweite Abtheilung. | [orn rule] | Von | Eduard Kayser. | [rule] | Mit drei Kupfertafeln. | [double-rule] | Berlin, 1934. | [double-rule] | In Commission der Nauck'schen Buchhandlung.

8°: VII, [3], 501, [1]p; 3 fold engrav pls of crystal forms. 20.2 x 12.2 cm(8 x 4 3/4 in). Cropped. JSL.

Cont: tp; fwd; tabs; text in 2 parts; publ data; pls.

Highly detailed descriptions of a large number of specimens in the Bergemann collection in Berlin, who is not otherwise identified. The first part consists of hand-size specimens, while the second part treats the larger pieces, with all dimensions expressed in German inches. The "Family of Precious Stones" pieces are treated on p 123-71, and include examples of zircon, corundum, spinel, chrysoberyl, topaz, beryl, iolite, tourmaline, thulite, peridot, chondrodite, hyalosiderite, garnet, helvite, staurolite, vesuvianite, epidote, zoisite, kyanite, diaspore, axinite, andalusite, in rough and cut. Quartz varieties treated on p 1-67, and elsewhere are serpentine, feldspar, scapolite, malachite, and others.

KAZAKOV, B M, see DONOVA, K V, et al

KAZANTSEVA, L K, see DENISKINA, N D, et al

3343. KEELING, J L Opal in South Australia. *South Austral Dept Mines & Energy Information Series*, Adelaide, 16 p, ill. Not seen.

KEFERSTEIN, CHRISTIAN(1784-1866)

Ger geol; b Halle; noted for studies confirming volcanic origin of basalt. Pogg I, 1234-5; C Keferstein: *Erinnerungen aus dem Leben... Skizze der literarischen Wirksamkeit*, Halle, 1855, 8°: viii, 161 p. Not seen.

3344. -----1849

Mineralogia polyglotta | von | Chr.Keferstein | Königl Preussischen Hofrathe. | [orn rule] | Halle, | in Commission bei Eduard Anton. | 1849.

8°: XII, 248 p. 21.3 x 13 cm(8 3/8 x 5 1/8 in). Cut. USGS Kunz Coll, GS 34-922; JSL.

Cont: tp; dedic; tab cont; 6 chs.

In this thoroughly remarkable work, the author investigated mineralogical nomenclature in as many languages as he could

find data for, eg, for "stone," he cites equivalents in Chinese, Tibetan, Malay, Javanese, Manchu, Greenlandic, Eskimo, Japanese, Esthonian, etc, and not mentioning the more common languages. All of it is an impressive display of linguistic and etymological erudition. Of special interest to gemologists are sections on gemstones: "jewel, precious stone, gem," p 5-6. The second chapter on "gems and related terms," p 7-78, provides terms for diamond, pearl, colored and uncolored stones, corundums, spinel, zircon, and others. There is also a section on the 12 gemstones in the breastplate of the High Priest, p 72-8. Ornamental and architectural stones are treated in Ch 3 and include quartz and its varieties, the bezoar, "noble" or gem feldspars, obsidian, chiastolite, serpentine, meerschaum, and remarks on color names, especially those used by Pliny in his *Natural History*. While jet appears logically in Ch 5 under "combustible minerals," amber is not treated here but appears in the second chapter among "yellow gems." The information in this work remains unmatched and is only approached in the case of certain gemstones in the works of Berthold Laufer, ie, pearl, turquoise, and diamond.

3345. KEGHEL, MAURICE DE

Bibliothèque Des Actualités Industrielles No 161 | [double-rule] | Les Perles Fines | Les Nacres | Et leurs Imitations | Par | Maurice De Keghel | Ancien chef du Labratoire de l'Institut des Sciences Appliquées | Chimiste en chef du Labratoire de Recherches de Jette | [orn rule] | Paris | Librairie Bernard Tignol | Publications De La Librairie | De L'École Centrale Des Arts Et Manufactures | 53 bis, Quai des Grands-Augustins, 53 bis [nd, ca 1913]

A label pasted over publ data on titlep reads "Gauthier-Villars et Cie, Paris (6e)."

8°: 46, [1]p. Orange, print wrap, cover title; publ bks back cover. 18.5 x 13.2 cm(7 1/4 x 5 1/8 in). Be uncut. JSL.

Cont: blank f endp; 1/2tp; publ bks; tp; 4 chs; tab cont; blank p; blank f.

Brief essays on genuine, false, and "reconstituted" pearls and nacre, and mainly valuable for its information on false pearls, including those made of glass with an iridescent coating. The last chapter describes imitations of nacre. Paper badly browned & brittle; probably few copies survive.

3346. KEITH, DAVID GRAEME

Goldsmith to the Russian Imperial Court | Fabergé | Faberzhe[in Cyrillic letters] | M.H. De Young Memorial Museum · San Francisco [1964] P 5: "To Mr.David Graeme Keith, Curator of Decorative Arts at the De Young Museum, goes the credit for compiling this catalogue."

Centerstapled oblong: [1 blank], [1], 62, [4 blank]p (initial & final [2]f are orange-brown paper; the center sect, p 19-[46], which bear photos is white paper; remainder of paper pale tan). Center sect contains 54 b&w, 4 col photos, all includ in pag. Thick white glossy wrap, inner sides orange-brown, title in black & orange-brown on front cover with blind-embossed Russ Imperial Eagle. 21.5 x 28.3 cm(8 1/2 x 11 1/8 in). Cut. $2.75. JSL.

Cont: blank p; publ data; tp; tab cont; fwd; ackn; introd; marks; gloss of materials & techniques; chronol; biblio(p 18, 5 entries); ill sect; catalog; 2 blank f.

Catalog & guide to a special exhibition in 1964. First part on Fabergé, his career, establishments, hallmarking practises, also a brief glossary of the materials and techniques referred to in the catalog, and ending with a chronology of himself and his business. The central illustration section briefly describes 101 objects, all accompanied by photographs, and followed by the brief formal catalog of 171 pieces which include those depicted. Handsome publication, made from high quality materials.

3347. KELAART, EDWARD FREDERICK(1818?-1860)

Introductory report of the natural history of the pearl oyster of Ceylon. *Proc Phil Soc Edinburgh*, 1, 1854, 399-4-5; also: Introductory report on the natural history of the pearl oyster (Meleagrina margaritifera Lmk) of Ceylon, *Madras J of Literature & Sci*, 19, ns vol 3, 1858, 89-110; also: On the natural history of the Cingalese pearl oyster and on the production of pearls, with KARL MÖBIUS, *Annals of Nat Hist*, London, 1, 1858, 81-100. It is likely that each of these articles covers about the same ground. Not seen; from Kunz & Stevenson, *Bk of the Pearl*, bibliography.

3348. KELEMAN, PAL

Medieval | American | Art | A Survey In Two Volumes | by | Pal Keleman | Volume I | The Macmillan Company | New York. 1944

8°: xiv, [1], [1 blank], 414, [2 blank]p. Maroon buckram, gilt title & mask on front cover; gilt spine title & vol no. 27.8 x 21 cm(10 7/8 x 8 1/4 in). Very pale tan paper. JSL.

Cont: 1/2tp; tp; publ data; dedic; fwd; tab cont(for both vols); text tp; 12 chs; chronol chart; biblio(p 385-405, ca 470 entries); index; blank p. Ch 8, 283-311, on "Jade and other semiprecious stones," with illustrations for same being in the plates volume, Pls 235-58(not seen). Most of this text treats jade, its nature, types, and then describes the many objects depicted according to artistic merits and significance. Other gemstones are rock crystal, turquoise, obsidian, serpentine, amber, calcite onyx, and cryptocrystalline quartz varieties.

3349. KELLEHER, PATRICK J

The Holy Crown Of Hungary | Patrick J.Kelleher | [logo] | American Academy In Rome | 1951

Ser tp: *Papers and Monographs of the American Academy in Rome*, vol XIII.

8°: IX, [1 blank], [1], [1 blank], 124 p + [37] bound-in glossy f with 36 pls. Pale vermilion print wrap, cover & spine titles. 24.5 x 16.1 cm (9 5/8 x 6 3/8 in). Uncut. JSL.

Cont: blank f supplied + ser tp; tp; print data; dedic; pref; tab cont; introd; text; charts; biblio(p 112-8, ca 125 entries); index; pls tp; pls; blank f supplied.

A very detailed study of the crown made possible during its storage by the U S Army at Wiesbaden, Germany in the closing phases of World War II. The crown, with sword and other regalia, was intercepted by Allied Forces during an attempt to transfer the regalia from Hungary into Switzerland. From minute examinations of the crown and studies of literature written about it, Kelleher concludes that the crown is a "facsimile of the imperial *stemmata* of Byzantium which appeared first in the Eastern World at the time of the association of John II Comnenus with his father, Alexius I, in the year 1092"(p 107). The plates show the crown from various aspects, the storage casket, and details of its sub-structures, panels, and ornamentation. Not much is said of the gemstones except to identify them.

KELLER, O, see IMHOOF-BLUMER, F

KELLER, P C, see SELIGMAN, D H

3350. KELLER, WALTER DAVID(1900-)

The Common Rocks and Minerals | of Missouri | by | W.D.Keller, Ph.D., | Professor of Geology | University of Missouri | Columbia, Missouri | The University Of Missouri Bulletin | Volume 46 Number 5 Arts And Science Series Number 1 | [double-rule] | Entered As Second Class Matter... [3 lines] ... | February. 10. 1945

Centerstapled: 78 p; 56 photos. Pale tan wrap, cover title. 22.9 x 15.2 cm(9 x 6 in). Cut. JSL. LC 45-36942.

Among the materials described are cave onyx, chert, flint, agate, jasper, and quartz. Reissued in 1948 with minor revisions.

3351. -----1961, rev edit

The Common Rocks and Minerals | of Missouri | (Revised Edition) |... [5 lines]...| Missouri Handbook No.1 | The University Of Missouri Bulletin | Volume 62, Number 27 Arts And Science Series, Number 10 | [double-rule] | Published by the University of Missouri at the Office of Publications, Columbia, | Missouri. Entered ... [3 lines]... | June 5, 1961

Centerstapled: 78 p, 55 photos. White, heavy paper wrap, photos on both covers; title front cover; other handbks inside back cover. $.35. JSL. Remarks on several uranium minerals added.

3352. KELLEY, JAY G

The Boy | Mineral Collectors | By | Jay G.Kelley, M.E. | [orn] | Philadelphia | J.B.Lippincott Company | 1899

8°: 362, [5 advert]p; col litho pl of mineral specimens, heightened in silver, as tip-in front. Light blue cloth, black & yellow frame, mineral specimen & lett on cover; black lett spine. 20.1 x 12.8 cm(8 x 5 1/8 in). Cut.

Cont: tp; publ data; pref; 20 chs; index; advert. JSL.

A tale of two young men from Ohio visiting an uncle in Denver, Colorado and being given a practical education in minerals, gemstones, and mining during their stay. The writing style and conversations are stiffly formal in the manner of some early Victorian "conversation" books. There is much interesting reading and obviously the author was conversant with his subject. Much space is devoted to gemstones, particularly Ch 6 on pearls and rubies, Ch 8 on silver and diamonds, Ch 9 on diamond again, here called the "queen of precious stones," Ch 11 on metals, sapphires, and emeralds, Ch 14 on gemstone lore, Ch 16 on semiprecious gemstones, and Ch 19 on the world's great diamonds.

3353. -----1902, reprint. Reprinted from the same plates but smaller in size; minor changes include added tissue to frontispiece pl, elimination of advertising, cloth somewhat less bright blue, cover lett now without black and less the mineral specimen, spine title yellow. 18.7 x 12.3 cm(7 3/8 x 4 7/8 in). Cut. JSL.

3354. KEMAL ÇIG

Guide Book | The Treasury Department | Of The Topkapi Palace Museum | [photo] | Kemal Çig [Istanbul, nd, ca 19761

Cementb: 64 p + tip-in fold floor-plan; 2 b&w photos(includes titlep photo); 60 col photos. Paper wrap, gold title in raised lett on cover with col photo of Piggott diamond; 2 col photos back cover. 19.9 x 13.5 cm (7 7/8 x 5 1/4 in). Cut. 30 lira. JSL.

The history of the fabulous treasures accumulated by past Sultans of the Ottoman Empire and preserved in the Topkapi Palace in Istanbul, Turkey. Includes jewels, ornaments, ceremonial arms, thrones, and other valuables, followed by description/guides to the four salons in which the exhibits are placed, and the color photographs and the plan of the rooms. The color photos are fair only but adequately depict the important objects as the 86 carats Piggott or "Spoonmaker" diamond, the famous dagger set with three large cabochon emeralds which figured prominently in the cinema "Topkapi," and a number of objects made from enormous single-crystal emeralds. This guidebook is sold at the museum and is available in several languages.

KEMP, HOBART, see CHAPPUZEAU, S

3355. KEMPER, THEODULO Praeside, dissertatio de succino. Resp. Gottfr. Wilh. Blumenberg. Pagg. 44. Jenae, 1682, 4°. Not seen: Gatterer II, 154.

3356. KENDALL, HUGH P

The Story Of | Whitby Jet | [rule] | Its Workers From | Earliest Times | [rule] | By Hugh P.Kendall | Honorary Curator, Whitby Museum. | [orn] | Printed and Published by | Horne And Son, Limited, Whitby.| 1936.

Centerstapled: [11], [1 blank]p; photos of jet replacing wood & a portr medallion in jet. Pale gray print wrap. 22 x 15 cm(8 5/8 x 5 7/8 in). Cropped. JSL.

Prehistory of jet in the Whitby region, archeological finds of jet artifacts, historical references to the jet commencing with Venerable Bede(675-735 AD), then discusses nature of jet, its mining, manufacturing, workers in jet, their specialties, workshops & working conditions, and the system of apprenticeship.

3357. KENNA, VICTOR E G

Cretan Seals | With A Catalogue Of The | Minoan Gems In | The Ashmolean Museum | By | V.E.G.Kenna | Oxford | At The Clarendon Press | 1960

4°: [2 blank], xii, [1], [1 blank], 163, [3]p + 23 photo pls on 23 bound-in f; 172 fig; numerous line drawings on both sides of last text f. Pale brownish-red cloth, gold lett, rules, seals on spine. Pale tan dj, lett with photos of seals on front; resume, adverts. 31 x 23.7 cm (12 1/4 x 9 3/8 in). Cut. £ 5. 5 s. JSL.

Cont: blank f; 1/2tp; tp; publ data; ackn; tab cont; ill list; abbrev list; text; select biblio(p 157-8, 109 entries); index of materials; index of proveniences; general index; print data; line drawings; pls.

Large and handsome work on Cretan seals. The first part is a general treatise on the subject which discusses seals and cylinders, seal beads and forms, development and use of incised motifs and symbols and their meanings. The second part is the catalog of specimens in the Ashmolean Museum at Oxford; descriptions include dimensions, materials, etc. Scholarly.

3358. -----1966

Die Englischen | Privatsammlungen | bearbeitet von | Victor E.G. Kenna | [logo] | Verlag Begr. Mann · Berlin 1966

Series title facing:

Akademie Der Wissenschaften Und Der Literatur | Mainz | Corpus Der | Minoischen Und Mykenischen Siegel | herausgegeben von | Friedrich Matz Und Hagen Biesantz | Band VIII |...

8°: [2 blank], XVIII, 223, [1 blank]p; 158 seal ill in drawings & photos. Dk red buckram, gold title on cover; black spine panel with ser title & vol no. 24.9 x 18.5 cm(9 3/4 x 7 1/4 in). Cut. 64 DM. Plain cardbd slipcase. JSL.

Cont: blank f; ser 1/2tp; ser tp; tp; publ data; remarks; fwd; pref; tab cont; indexes; catalogs; blank p.

The remarks indicate that the Corpus of Seals eventually will comprise 14 volumes; Kenna discusses the collectors & collections, namely those of J M Dawkins, J Bard, N Coville, Robert Erskine, R W Hutchinson, V E G Kenna, E G Spencer-Churchill, Mrs Dilys Russell, and an "unidentified" lady. Entries provide multiple photos of each seal along with drawings to better elucidate the engraved work; captions indicate the material, dimensions, etc. Virtually all of the materials are gemstones as steatite, agate, obsidian, carnelian, and the like.

3359. -----1967

Die Englischen Museen II | London, British Museum - Cambridge, Fitzwilliam Museum | Manchester, University Museum - Liverpool, City Museum | Birmingham, City Museum | bearbeitet von | Victor E.G.Kenna | [logo] | Verlag Gebr. Mann · Berlin 1967

Series title facing: ... | Band VII I...

8°: XIX, [1], 336 p; 264 seals ill in drawings & photos. Same cloth, etc. JSL.

Cont: ser 1/2tp; ser tp; tp; publ data; pref; author pref; tab cont; abbrev(biblio p XIII-XIV, 28 entries); concords; indexes; catalogs.

3360. -----1971 Corpus of Cypriote antiquities, 3 - Catalogue of the Cypriote seals of the Bronze Age in the British Museum. (*Studies in Mediterranean Archaeology* XX, 3). Göteborg 1971, 41 p; 4°; 22 pls. Not seen.

3361. -----1972 Nordamerika I, New York. The Metropolitan Museum of Art. Corpus der minoischen u mykenischen Siegel XII. Berlin, 1972, 432 p, 1648 ill. Not seen.

3362. KENNARD, BEULAH ELFRETH & HUTCHINSON, E LILLIAN

Department Store | Merchandise Manuals | The Jewelry Department | By | Beulah Elfreth Kennard, M.A. |...[5 lines]...| Assisted By | E.Lillian Hutchinson, B.A. |...| Consulting Editor | Lee Galloway, Ph.D. |...[4 lines] ...| New York | The Ronald Press Company | 1917

8°: xiv, 163, [1 blank]p; glossy photo front tip-in pl; 9 fig(6 are photos on 6 glossy tip-in f). Gray-blue cloth, ser & bk title in gold on cover; gold spine title. 17.9 x 13 cm(7 x 5 1/8 in). Cut. JSL.

Descriptive introduction to the merchandise typically carried in the jewelry department at the time: metals, precious stones, jewelry manufacture, jewelry articles, selling suggestions, Information on gemstones mainly on p 21-64, ie, properties, qualities, descriptions, relative values, imitations, synthetics. Under manufacture of jewelry there is a chapter, p 80-93, on lapidary treatment in which there are remarks on gem engraving. Birthstones are shown on p 144-6, in an "original list," and in a "new list," the latter adopted in 1913. All of the information is elementary, simply-worded, and accurate.

3363. KENNEDY, DAVID Kennedy at the Cape: a Professional Tour through Cape Colony, the Orange Free State, the Diamond Fields, and Natal. A crown octavo Not seen: from Theal, 160.

3364. KENNEDY, GORDON S, et al

The Fundamentals Of | Gemstone | Carving | By Gordon S.Kennedy | And Others | [orn] | Compiled and Edited By | Pansy D.Kraus, G.G., F.C.A. |... [4 lines]... | Copyright, 1967 By | Lapidary Journal, Inc. | First Printing... Feb.1967 |...[4 lines]...| Published By | Lapidary Journal, Inc. | P.O.Box 2369, | San Diego, Calif. 92112 |...[4 lines]

Edgestapled: vi (first 2 p blank), 128, [2 blank]p; ca 250 text photos, 42 line drawings, 21 col photos on 4-f section of glossy paper. Brown wrap, col photo, yellow lett on cover; yellow lett spine. 29.2 x 21.9 cm(11.5 x 8 5/8 in). Cut. $4.95. JSL.

Cont: blank f; tp; dedic & ackn, list of 29 other authors; tab cont; text in 2 parts; append(adverts); blank f.

Compiles articles from the magazine with some revision & new material. Original line drawings re-worked & much improved. First part, 4 chs, by Kennedy, on basic principles, techniques, materials, tools, and followed by the color insert. The second and by far largest part by other authors, p 43-113, presents numerous ideas, tips, special techniques, etc that were sent in to the magazine. The appendix is a series of advertising photographs depicting tools, equipment and accessories applicable to gemstone carving. As may be expected this second part is a potpourri and considerable searching by the reader is necessary to find information on specific problems. There is no index. This is the first substantial work on the subject to be published in the United States. Numerous reprintings.

3365. KENNEDY, NIGEL W The genesis of gemstones. *The Gemm*, 19, 230, 1950, 191-3, 205; 231, 240-2; 232, 262-6; vol 20, no 235, 1951, 35-8; 236, 68-70; 237, 91-5; 240, 163-4; 241, 181-3. Several articles illustrated.

3366. -----1953 Gem minerals of the British Isles. *J Gemm*, 4, 2, 1953, 82-95, refs.

KENNGOTT, GUSTAV ADOLF (1813-1897)

Ger mineralogist/geologist/educator; privat docent Breslau U; asst in Imper Cabinet Vienna; prof mineralogy Zürich. Pogg I, 1242-3.

3367. -----1851 Ueber Achatmandeln in den Melaphyren, namentlich über die von Theiss in Tirol. *Naturwissenschaftliche Abhandl gesammelt u durch Subscription herausg v Wilhelm Haidinger*, Wien, 1851, 4, 2 Abt, p 71-104, Pl 8(16 fig). Summarizes theories on formation of agate nodules in eruptive rocks; presents own conclusions based on observations upon nodules found at Theiss, nr Klausen, Tyrol: 1 shape of gas cavity is governed by movement of enclosing rock, 2 next stage is when rock is motionless, 3 infilling occurs, and 4 filled nodules affected by atmospheric agencies. See also HAIDINGER, 1847-51.

3368. -----1858

Dei [sic] Edelstein. | [rule] | Oeffentlicher Vortrag | gehalten den 11 Hornung 1858. | von | Prof.Dr.Adolf Kenngott. |

[orn rule] | Zürich, | Druck von Orell, Füssli und Comp. | 1858.

8°: 44 p; litho pl. Print wrap? 18 x 12.5 cm(7 1/2 x 4 7/8 in). Cropped. USGS Kunz Coll, GS 34-727. Cont: tp; pl; text.

A public address on gemstones in easily understood language; treats the principal gemstones as diamond, corundum, spinel, chrysoberyl, topaz, garnet, and quartz varieties, giving remarks on properties, imitations, styles of cutting, etc.

3369. KENT, L E B.-Emeralds and beryls. The mineral deposits of the Murchison Range, east of Leydsdorp by O.R.Van Eeden... F.C.Partridge... L.E.Kent, M.Sc., F.G.S., and J.W.Brandt, B.Sc. Union of South Africa, Department of Mines, *Geological Survey Memoir* No.36, Pretoria, 1939, 163 p, figs, maps. JSL. Kent's article extends over p 93-120 and describes the history, geology, origin, and characteristics of the schist-type emerald occurrences, with details on mineralogy, features of the emerald crystals, composition, and notes on mining and recovery of the stones. A sketch map given of occurrences near Germania(Cobra Emeralds). Also see VAN EEDEN, O.R., et al.

KENTMANN, J see GESNER, C

3370. KENTUCKY DIAMOND MINING AND DEVELOPING CO.

The Kentucky | Diamond Mining | And | Developing Co. | (Organized under the Laws of the State of South Dakota.) | Office In South Dakota: Custer. | Properties: Elliott County, Kentucky. | (An "American Kimberley.") | Examined by the United States Geological Survey and the State Geological Survey | of Kentucky. | Capital Stock, $5,000,000 | (Par value of Shares One Dollar each, fully paid and non-assessable.) | ...[11 lines of company officers]...| Business Offices: Minneapolis, Minn. | Address all Communications to the Secretary, | 513-514 Boston Block, Minneapolis, Minn. | [rule] | Directors | Francis H.Cook Alfred T.Feay Austin Q.Millar | S.F.Nelson, General Fiscal Agent. [nd]

Centerstapled: 30, [2 blank]p; pink subscription blank tip-in at end; text map; photo. Very elaborate, indeed, dazzling colored heavy paper wrap, company title, address, etc on front cover, in center an octahedral diamond crystal in matrix; similar decor back cover which bears a center illust of crystals & cut gems of corundum. 22 x 17 cm(8 3/4 x 6 5/8 in). Cut. USGS Kunz Coll, GS 34-618.

Cont: tp; tab cont; map; introd; text; addenda; blank f; shares blank.

A striking and colorful prospectus issued by a company that proposed to exploit a kimberlite deposit in Elliott County, Kentucky, which, however, yielded only gemmy pyrope garnets but no diamonds. The pamphlet contains much information on the diamond and other gems, with numerous quotations from authorities on occurrences of diamond-bearing kimberlites elsewhere.

3371. KENTUCKY TRANSVAAL DIAMOND MINING CO Prospectus. [Willard, Ky., Kentucky Transvaal Diamond Mining Co., 1906] [16]p, 21 1/2 cm. Caption title. Cont: Prospectus; Report on the kimberlite outcrops in Elliott County, Kentucky by David Draper; Report of the kimberlite outcrops of Kentucky, by Samuel Pearson. Not seen, from USGS Kunz Coll, GS 34-728.

3372. KEPPEN, FR TH O nakhozhdenii yantarya v predelakh Rossii [on the discovery of amber in Russia]. *Zhurnal Ministerstva Nar.Prosv.*, ch(v) 288, Otd. Nauk [Sci Sect], no 8, 1893, p 301-42. Not seen.

KERMANI, K, see BECK, C W, et al

KERN, JOHANN GOTTLIEB (d 1775)

Ger econ geologist, mining eng; sometime Edelgesteininspektor, or "Inspector of Gem Stones" for the Halsbrück district of Saxony; later Salzfaktor or "Salt-manufacturing Manager" at Artern in the county of Mansfeld. Pogg I, 1247.

3373. -----1776

Johann Gottlieb Kern | vom | Schneckensteine | oder dem | sächsischen Topasfelsen. | [rule] | Zum erstenmal herausgegeben, | und | mit Anmerkungen vermehrt | von | Ignatz edlen von Born | Herrn auf Altzedlitch, Inchau [etc.] der kais. Akademie der Naturforscher, der Aka= | demien der Wissenschaften zu London, Stockholm, Lund, Siena, München, Burghausen; | zu Berlin Mitgliede. | [orn] | Mit fünf Kupfertafeln. | [rule] | Prag 1776. | bey Wolfgang Gerle, Buchhändler.

4°: [8], 49, [1]p; a^4, A-F^4; 5 fold engrav pls. 24 x 19 cm(9 1/2 x 7 1/2 in). Cropped. Woodcut tailpcs. JSL; GS 33-335; DeGolyer Coll, Okla U.

Cont: tp; poetic quot; edit pref; author pref; tab cont; 19 chs; errata; pls. Agassiz III, 354.

According to Born(Ignaz, *Edler* von, 1742-1791), who edited this work and readied it for publication after the death of Kern in 1775, this is the first comprehensive study of the famous topaz deposit at the Schneckenstein (rock) in Saxony, from which came many mineral specimens of crystals and of rough suitable for faceting into small pale yellow gems. The text treats geography, geology, and petrography of the topaz-rock, The topaz crystals, associates, the origin of the word "topaz," how the gem rough is recovered, genesis of the topaz, and other related matters. The engraved plates are quite interesting, the first four showing views of the approximately columnar rock mass from the four cardinal points of the compass, while the last plate depicts three matrix specimens and eight single crystals of topaz. Poggendorf states that this monograph was also published in Dresden, 1792, with some references giving it as the "second" edition. Compare this work, and the similar view plates also provided in in CHARPENTIER, F F W von. Very rare.

3374. KERN, W Italienische Marmorintarsien und Mosaiken. Herausgegeben von Walter Kern. 25 Farbtafeln aus der Kunstanstalt von Bogdan Gisevius in Berlin, 1921. Large folio. Text and 25 colored pls of inlaid marble. Loose issued in publisher's portfolio. Not seen: from Sims, Reed & Fogg Booksellers Catalog No 58, spring 1984, p 12, no 54.

3375. KÉRORMEL, G Collection "Sciences Et Voyages," G.Kérormel Ingenieur- Chimiste, Métaux Rares Et Pierres Précieuses, Éditions De Sciences Et Voyages 3, Rue de Rocroy, 3 Paris. [1926] 8°: 95, [1]p; 42 fig(photos & line drawings). Pale green printed wrap. 19.5 x 14.5 cm(7 5/8 x 5 3/8 in). Cut. Badly browning, perishing paper. 3 Fr. 50. Contains 23 chs in 4 parts, first on metals, second on manufacture of coins, medals and jewelry, third on radioactive & rare elements, and the last on gemstones in 4 chapters, p 75-95, and including remarks on synthetics and imitations. Shallow, virtually worthless.

KERR, P F, see STRONG, H T

3376. KERR, P F & ARMSTRONG, E Recorded experiments in the production of quartz. *Bull Geol Soc Amer* 54, Suppl 1, 1943, p 1-34, pl, fig. JSL.

KERR, WASHINGTON CARUTHERS (1827-1885)

Amer chemist/geologist/educator; b Guilford Co, NC; PhD NC Univ 1879, LLD 1885; prof Marshall U, Texas 1851-52; prof chem & geol Davidson Coll, NC 1856-65; State Geologist NC 1864-82; Chief, Southern Div USGS 1882-3.

3377. -----1875

Report | Of The | Geological Survey | Of | North Carolina. | Volume I. | Physical Geography, Resume, Economical Geology. | W.C.Kerr. | 1875. | [rule] | By Authority Of The General Assembly. | [rule] | [orn rule] | Raleigh: | Josiah Turner, State Printer And Binder. | 1875.

8°: [1], XVIII, 325 p + 120 p; fold col geol map of NC bound-in as front; text wood engravs; wood engrav fold pls(maps); 8 litho pls of fossils bound-in at end of Append. Black, blind-stamped cloth, gilt title spine. 23.7 x 15 cm(9 3/8 x 5 7/8 in). Cut. JSL. GS 5-233.

Of interest here is Appendix C, p 53-89, by F A Genth, forming a "Preliminary report on the minerals found in the State of North Carolina." Included are gemstones diamond, corundum, quartz, beryl, garnet, "leopardite" rock, staurolite twins, and serpentine. Appendix D, p 91-7, by the Reverend C D Smith, describes corundum and its gem varieties as found in the state and also the rocks in which the corundum occurs, while another paper by him, p 98-120, entitled "Essay on the geology of Western North Carolina," describes the mode of occurrence of corundum and some of the gem varieties that he saw and personally collected. In 1891, Genth published his full version of the minerals of North Carolina, which see.

3378. KESLER, J W & ROST, C C H Kesler'schen Daktyliotheken. A series of twelve sets of engraved gem impressions, the first issued in 1780. According to Zazoff, *Gemmensammler*, p 169, "the impressions were prepared only in part after antique gems, many modern, many stemming from Pichler and Dassier. The accompanying text was composed in German. They were set into caskets that had the form of a book." The Zazoffs extracted this information from J F ROTH's *Mythologische Daktyliothek*, 1805, p viii ff.

KESSEL, JOSEPH(1898-1979)

Fr writer; "he will be remembered for his *Belle de Jour*, which Luis Bunuel made into the celebrated movie. *The Lion* was another best seller from among his production of 50 novels. He was one of France's most renowned writers." Obit: *Antiquarian Bookman*, Aug 20-7, 1979, p 1082.

3379. -----1955 La vallée des rubis. Paris: Librairie Gallimard, 1955. Not seen: rev *J Gemm*, 14, 3, 1974, 142.

3380. -----1960, Engl edit, London

Joseph Kessel | Mogok | The Valley of Rubies | [star] | Translated from the French by | Stella Rodway | London | Macgibbon & Kee | 1960

16°: 198, [1], [1 blank]p. Bright red cloth-type paper over bds, gold lett & rule on spine. Col dj, photo of oriental gem dealers on cover; resume; other bks of publ. 21.4 x 13.8 cm(8 1/2 x 5 1/2 in). Cut. 18s. JSL.

Cont: 1/2tp; other author bk; tp; publ data; dedic; text tp; 17 chs.

A tale of adventure based on a trip made to Mogok in Burma by the author and a friend to seek out a treasure of rubies. In the telling, much interesting and authoritative background information is injected about the Mogok region in general, and about the mines, miners, and the trading in gemstones. A surprisingly scarce work. Rev *NY Herald Tribune*, Mar 18, 1960.

3381. -----1961, NY edit

Joseph Kessel | The Valley of Rubies | Translated from the French by | Stella Rodway | David McKay Company, Inc. | New York [1961]

16°: 198, [1], [blank]p. Red, unfin cloth; gilt spine title. Red & white dj, with white, yellow & black lett; native sketches on cover; portr & vita of author back cover & flap; flap resume. 20.3 x 13.5 cm(8 x 5 1/2 in). Cut. LC 61-7987. $3.95. JSL.

Cont: 1/2tp; other work of author; tp; publ data; dedic; text tp; text.

KEUTER, P, see OLDENBURGISCHEN INDUSTRIE... IDAR

3382. KEYSER, U The occurrence of diamonds along the coast between the Orange River estuary and the Port Nollah Reserve. *Geol Survey S Afr Bull* 54, 1972, 23 p. Not seen.

KHABAKOVA, A V, see YUDIN, G L, et al

KHARKHOV, A D, see BOBRIEVICH, A P, et al, 1964

KHASHKAROV, I F, see YURK, Y Y, et al

KHOL, F I, see DIBROV, V E, et al

3383. KIBALTCHITCH, T W

T.W.Kibaltchitch. | Gemmes | de la Russie méridionale. | Documents inédits sur l'histoire de l'art de la gravure chez les anciens | peuples ayant habité la Russie méridionale. | Publiée par M.le Dr. W.Tiktine en 250 ex | Imprimé dans l'Imprimerie de Reinke et Grounwald, Berlin SO. 26. | Mars 1910.

4°: [6]p + p 3-66 + [3], [1 blank]p; tip-in front gravure portr pl of author with pale tan border & facs signature, tissue gd; 20 pls, hinged, tissued, the last being sketch map of Black Sea, the water hand-col blue. Each pl on stiff paper, pale yellow-tan background panel. Two-tone cloth, brown spine, sides tan; gold title on brown overlap & also on spine. Pale grayish-tan endp. 30.4 x 23.7 cm(12 x 9 3/8 in). All gatherings steel-stapled. Only 250 copies issued. JSL.

Cont: 1/2tp; portr pl; tp; dedic; pref; tab cont; text; catalog; addenda & errata; pls tp; pls.

The engraved gems in this collection, formerly exhibited in a museum established by the author in Kiev, are representative of those that have been found in former Byzantine, Greek, and Roman provinces of Southern Russia. The first part of the text discusses the curious lore of engraved gems, with lists of birthstones and Biblical stones. A brief section gives a history of engraved gems in general, and is followed by a section on the history of the Greek-Roman colonies in the Scythian Empire and the Empire of the Bosphorus. The major part of the text,

however, is occupied by the catalog of the collection in which each gem is identified and briefly described. The plates are superbly printed and depict 511 gems in actual size. Very rare.

KICKX, J see BOODT, A B De, 1609

KIDD, JOHN(1775-1851)

Brit chemist, geol, mineralogist; b London; BA Oxford 1797, MA 1800; MD 1801 & 1804; chem reader Oxford 1801; ist Aldrichian prof 1803-22; regius prof med 1822; librarian Oxford U 1834-51; noted for discovery of naphthalene in coal; wrote on anatomy, geol & mineralogy. DNB, 1130.

3384. -----1809

Outlines | Of | Mineralogy. | [orn rule] | By J.Kidd, M.D. | Professor Of Chemistry In The University | Of Oxford. | [orn rule] | Vol.I[-II]. | [double-rule] | Oxford: | Printed By N.Bliss, | For J.Parker, and R.Bliss; | Longman, Hurst, Rees, & Orme, and Messrs. Rivingtons, | London. | [rule] | 1809.

8°: xvii, [1 blank], [1], [1 blank], xxxix, [1 blank], 255, [1 blank] p; viii, 227, [1 blank], 39, [1 blank], [13], [1 blank], [1], [1 blank]p. 20.6 x 13.1 cm(8 1/8 x 5 1/8 in). Cut. JSL.

Cont: I: tp; dedic; pref; biblio(p [x], 14 entries); tab cont; introd; text; blank p. II: tp; tab cont; text; blank p; append; blank p; index; blank p; errata; blank p.

A general mineralogy & petrology, written in essay style, with a minimum of technical material but with many interesting notes and additions to the text which do much to alleviate its dryness. Kidd places his text under four general heads: "Earthy, saline, inflammable and metallic substances," after Kirwan's *Elements of Mineralogy*, 1784. The appendix provides short essays on various rocks. To geologists, the introduction is of special interest because it provides a short survey of the science and a discussion of early writers who propounded important theories concerning the structure of the Earth's crust and its formation, eg, Burnet, Whiston, Woodward, Buffon, Kirwan, and Hutton, the last receiving much attention because of his involvement in the dispute between Neptunists and Vulcanists. The second part of the introduction gives an extremely brief review of the scientific principles of mineralogy and for most purposes is useless. There are numerous descriptions of gemstones, their characters, varieties, sources, and other useful and interesting data, notably for marbles, limestones, "blue John" fluorite, serpentine, meerschaum, nephrite, peridot, zircon, beryl, euclase, corundum, spinel, topaz, garnet, feldspar, agalmatolite, many varieties of quartz, given under "Silex," p 192-232, also opal, tourmaline, and lapis lazuli. The second volume is less rich in mentions of gemstones but includes diamond, amber, jet, and several ornamental rocks mentioned in the Appendix. For the gemologist, Kidd's book provides a good survey of current knowledge of gemstones & ornamental materials.

3385. KIDDER, ALFRED V; JENNINGS, JESSE D & SHOOK, EDWIN M

Excavations At | Kaminaljuyu, | Guatemala by | Alfred V.Kidder · Jesse D.Jennings · Edwin M.Shook | With Technological Notes by Anna O.Shepard | [logo] | Publication 561 | Carnegie Institution Of Washington | Washington, D.C. | 1946

8°: [2 blank], ix, 284 p + bound-in pls section comprising [50]f text interspersed with [48] pale cream, heavy paper leaves bearing photos & drawings, also 4 such f bearing col illust & 1 fold plan on white, translucent paper. Altogether 207 fig in the main text part. 29.2 x 22.8 cm(11 1/2 x 9 in). Cut. Dk grayish-green patterned cloth; blind rule frame on cover with gilt title; gold title spine. JSL.

Cont: blank f; tp; publ data; tab cont; ill list; 9 chs; append; biblio(p 279-84, ca 260 entries); pls sect.

The detailed report on the astounding wealth of archeological treasures found in a series of Pre-Columbian Indian mounds in Guatemala. The text gives an account of how the mounds were discovered and excavated, their size, nature, etc, architecture, tombs and graves, artifacts, pottery, and discussions of the finds. The technological notes by Shepard concern the mineralogical nature of the pottery, pigments, and stuccoes. Among the objects of interest to the mineralogist and gemologist are large numbers of jadeite artifacts, personal ornaments, etc, also those made from pyrite, hematite, obsidian, mica, shell, pearls, and bone. The section on jade objects, p 104-24, contains mineralogical notes, possible sources, varieties, explanations of the use of certain objects, eg, earplugs, and valuable comments on the probable methods used by the natives for working jade. Scarce.

3386. KIEVLENKO, EVGENII YAKOVLEVICH; SENKEVICH, NIKOLAI NIKOLAEVICH & GAVRILOV, ALEKSEI PETROVICH

E.Ya.Kievlenko, N.N.Senkevich, A.P.Gavrilov | [rule] | Geologiya Mestorozhdeniy | Dragotsennykh Kamney | [rule] | [logo] | Moskva "NEDRA" 1974

8°: 326, [2]p; 14 col photos forming ch titles; 32 fig(maps, plans, cross-sects); 25 tabs. Tan, unfin cloth, black title & rules on cover with green faceted gems; black title, rules on spine. White dj, col photo. 19.8 x 14 cm(7 3/4 x 5 1/2 in). Cut. 2 r 39 k. 3200 copies. JSL.

Cont: tp; resume & publ data; tab cont; pref; 13 chs; biblio(p 319-27, 211 entries); publ data.

"Geology of Gemstone Deposits" taken on a world-wide basis. The first chapter discusses classification schemes, standard cutting styles, prices, synthetics, genetic scheme of classification with a world-map showing deposits in relation to rock massifs. The main text studies principal gemstones, other than diamond, namely, ruby, sapphire, emerald, opal, beryl, topaz, tourmaline, peridot, garnet, turquoise, amethyst, chrysoprase, and others, with each being given a brief summary of important data followed by descriptions of deposits, country by country. The absence of many gemstones suggests that the study was confined to those that occur in the USSR. The final chapter summarizes occurrences in pegmatites, ultrabasic rocks, effusive rocks, sedimentary rocks, and alluvia. The numerous sketches in the text generally are previously published geological maps, plans, and cross-sections of gemstone deposits or areas, while the colored photographs which lead off the chapters depict the gemstones discussed therein; they are poor quality. Bibliography paginated(!) and includes many non-Russian entries.

3387. KIEVLENKO, E Y & SENKEVICH, N P.

E.Ya.Kievlenko, N.N.Senkevich | [rule] | Geologiya Mestorozhdeniy | Podelochnykh Kamney | [rule] | [logo] | Moskva "NEDRA" 1976

8°: 279, [l]p; 12 glossy col photo pls tip-in; 49 fig(many maps, sections). Tan, unfin cloth, brown lett, rules on cover; lett spine. White dj, col photo & black title. 19.8 x 14.2 cm(7 3/4 x 5 5/8 in). Cut. 2 r 41 k. 5,500 copies. JSL.

Cont: tp; summary & publ data; tab cont; 12 chs; biblio(p 267-7, ca 250 entries); index to localities; publ data.

The "Geology of Ornamental Stone Deposits," on a world-wide basis, but most space devoted to occurrences within the USSR. Similar to above in respect to opening remarks; gemstones include: lapis lazuli, jadeite, nephrite, malachite, amber, amazonite, other feldspars, rhodonite, quartz varieties, hematite, marble, obsidian, jet, rose quartz, petrified wood, and fibrous quartz varieties. The color plates, fair in quality, depict the gemstones in rough & cut forms.

KIEVLENKO, E Y, et al, see PETROV, V P

KIMBERLEY HANDBOOK, see BRITISH ASSOCIATION

3388. KIMBERLEY, SOUTH AFRICA. BOARD FOR PROTECTION OF MINING INTERESTS Our diamond industry. Kimberley, 1885. 109 p. Not seen. Contains several articles on diamonds from various journals, and a lecture on "The value of our diamond industry" read at the Royal Colonial Institute by John X Merriman.

3389. KIMBERLEY, SOUTH AFRICA Kimberley. Exhibition, September 1892. Official Catalogue. South African and International Exhibition of Arts, Science and Industries. Cape Town: Richards, 1892. [xxiv], 193 p; ill. Not seen.

3390. KIMBERLEY, SOUTH AFRICA Kimberley. 1870-1897. A souvenir of the celebration in Kimberley of the sixtieth year of the reign of Her Most Gracious Majesty Queen Victoria. Kimberley, Tiller and Henderson, 1897. 47 p.ill. Consists largely of adverts; contains a number of photographs and a short historical sketch. Not seen, from Southey, 38.

3391. KIMBERLEY, SOUTH AFRICA. KIMBERLEY CITY COUNCIL

Kimberley | The Diamond City | [sketch, rough diamond] | South Africa | This Brochure has been | produced jointly by the | Kimberley City Council | and the Publicity and | Travel Department, South | African Railways [Kimberley: Diamond Fields Advertiser, nd, ca 1951]

Centerstapled: [24]p; over 70 ill; sketch map of vicinity inside back wrap. Col paper wrap, cut diamond & title in color on cover. 24.3 x 18.4 cm(9 1/2 x 7 1/4 in). Cut. JSL.

Lavishly illustrated with recent and old photographs; describes early history, present-day diamond industry, other industries, holiday facilities, irrigation, agriculture, the "Big Hole" of the diamond mine, residential areas and cultural facilities.

3392. KIMBERLEY LAND AND TOWNSITE COMPANY

Kimberley, | The Diamond City of America. | Issued by | Kimberley Townsite And Land Company | October 15th, 1909. | [rule] | The News Print, Nashville, Ark.

Centerstapled oblong: [16]p, 9 photos. Orange paper wrap, red, lozenge-shaped logo showing a cut gem in center of cover and similar logo for a railroad company on back cover. 10.4 x 22.6 cm(4 1/8 x 8 7/8 in). Cut. USGS Kunz Coll, GS 34-729.

Cont: tp; introd; hist of diamond fields, company, etc, travel instr.

While calculated to sell land, this brochure contains much early information on the Murfreesboro, Arkansas diamond field and is illustrated with contemporary photographs of the area, the persons involved in mining, and others. Rare.

3393. KINAHAN, GEORGE HENRY XXXVII.- Irish marbles and limestones. *Sci Proc Roy Dublin Soc*, ns, vol 5, 1887, p 372-444; XLVII, ibid, 489-96. JSL. Includes limestones, metamorphosed marbles, ophicalcites(with serpentine), serpentines, and others, with special remarks on the so-called "Connemara Marbles" or green serpentines that have been fashioned into small decorative objects. Includes descriptions of quarries, stones, their uses, etc.

3394. KING, CHARLES

The Story Behind | a Diamond | written and illustrated by Charles King | Cassell London [logo to right] [1966; "Story Behind Books," no 2]

8°: [4], 39, [5 blank]p; 36 pen & ilk sketches & washes. Bright blue cloth-type paper over bds, silver spine title. Col dj, photo of diamond crystals on front, white lett, green band, advert. 24.7 x 18.6 cm(9 3/4 x 7 3/8 in). Cut. 10/6. JSL.

Cont: 1/2tp; series bks & ackn; tp; publ data & text; 5 blank p.

Simplified, comprehensive, necessarily shallow treatment on all major aspects, but written in interesting style for juveniles.

3395. KING, CLARENCE(1842-1901) Copy of official letter, addressed November 11th, 1872, to the Board of Directors of the San Francisco and New York Mining and Commercial Company. By Clarence King, Geologist in Charge, discovering the new diamond fields to be a fraud. [San Francisco? 1872]. 12 p, 24 cm. Not seen; from USGS Library, GS 17-318. Exposure of the famous swindle involving the "salting" of a patch of barren ground with diamonds and other precious stones, leading to large investment of funds, and loss of same. See HARPENDING & WILKINS.

KING, CHARLES WILLIAM(1818-1888)

Brit archeol, writer; b Newport, Monmouthshire; Trinity Coll, Cambridge 1836, fellow 1842; spent several years in Italy studying language & lit, formed a coll of antique gems between 1845-77 which was subsequently enlarged by important purchases from eminent collections sold in London; the coll eventually increased to 331 gems & sold to John Taylor Johnston who presented it to the Metropolitan Museum of Art, New York(see *Catalog* entry below); after Italy, King spent a retired existence at Cambridge where he stud Greek & Roman classics, and composed his works on engraved gems. As stated by DNB "his writings on ancient gems are original, and evince the experience of a practical collector. In England they have stimulated an interest in glyptography, though they are often marred by defects due to insufficient numismatic and archaeological training." For general remarks on King and an assessment of his work, see Zazoff, *Gemmensammler*, 193-4.

3396. -----1860

Antique Gems: | Their | Origin, Uses, And Value | As Interpreters Of Ancient History; And As Illustrative | Of Ancient Art: | With Hints To Gem Collectors. | By Rev.C.W.King, M.A., | Fellow Of Trinity College, Cambridge. | [wavy rule] | "Gemmae supersunt et in arctum coacta rerum naturae majestas, multis | nulla sui parte mirabilior."- Plin.Nat.Hist. xxxvii. i. | [wavy rule] | [engrav gem] | London: | John Murray, Albemarle Street. | 1860. | The right of Translation is reserved. [title red & black]

8°: blank f + lxiv, 498 p + 32 p cata of bks; title f supplied, and possibly conjugate with first blank f(also supplied); 5 tip-in engrav pls; 135 text wood engravs(one on tp). Tan, ribbed cloth, blind orn ruled frames on both covers, enclosing oval gold engrav gems; gold lett, rules, floral orn & mask on spine. Dk pink endp. 23 x 15 cm(9 1/8 x 5 7/8 in). Uncut. LC 12-11898. JSL.

Cont: blank f; tp; print data; pref; introd; history of gem engrav; tab cont; pls with explan f; ill list; text in 4 sects; append; publ cat.

This is King's first book publication on a subject that he took up early in his career and pursued with single-minded persistence throughout his life. As a first effort, it leaves much to be desired, not because of neglect to provide a plethora of information, which is still very useful, but as Vinet, 1663, notes, it is very difficult to analyze. Faced with so much data uncovered in his solitary studies at Cambridge he crammed as much as he could within the covers of a single volume, but failed to organize it well with the result that the text is often confusing to the reader.

The introduction cites the views of Goethe on the usefulness of study of antique engraved gems and also provides a short history of the glyptic art. The five engraved plates, lauded by Vinet for their quality and fidelity to the originals, are inserted after the table of contents and explained in accompanying text, with many more single gems in wood engravings sprinkled throughout the text or used as head- or tailpieces. The first section of text describes the materials of gems, with notes on minerals and rocks used and possible sources of rough. There is some useful gemological information here, much of it based on King's researches into Pliny's *Natural History*, and other ancient sources. Here too are found remarks on pastes, gem impressions, and notes on forms of gems. The second section treats art as displayed in gems, beginning with tests of antiquity and the instruments used in engraving, the latter obviously useful in determining age. Next are essays on styles, symbolism, and subjects upon gems as assigned to various cultures during various periods. In this section also appear such diverse topical discussions as on rings, "flexible glass," names of artists, coin-dies, famous collections, and other bits and pieces of knowledge that should have been more carefully organized and presented to the reader. The third section treats the subjects depicted upon gems, while the last section, again a catch-all, considers mystic virtues of gems, and provides his own translation into English of Marbodeus' celebrated poem on gemstones, p 391-417, which is accompanied by another translation of parts of Orpheus' poem on stones, p 420-26, passim, the last being interspersed with short descriptions of gemstones as given in Camillus Leonardus' *Speculum Lapidum*, p 418-28, passim. The final part of this section is a commentary on books concerning engraved gems but treating only a few of the most important. King later published a much larger bibliography in his *Antique Gems and Rings*, see below. The appendix again treats a variety of topics, among them, remarks on the tools of the ancient engraver, the Sassanian alphabet, and notes on statements made previously in the text.

The encyclopedic, albeit confused nature of this work moved A Furtwängler, *Die antiken Gemmen*, vol 3,433, to be less than kind in his review, noting the "confusion" in this and subsequent works by King, and voicing the opinion that from this initial treatise sprang all the others that appeared in the following decade, eg, his *The Natural History, Ancient and Modern of Precious Stones*, etc, 1865, which grew from his section on gemstones, *The Gnostics and Their Remains*, 1864, 1887, which emerged from his section on mystical properties of gemstones, and so on. Furtwängler notes other defects in this and subsequent King books, summarizing them all as being "dilettante" in character, crammed with unplanned information, but still containing much that is worthwhile. Zazoffs, *Gemmensammler*, however, state that Furtwängler went "too far" in his criticism. Despite these adverse remarks it remains true that King, more than anyone else, was the first English writer to provide a major fund of information, all in one place, on engraved gems. He was responsible in large measure for arousing interest in this branch of ancient art among the people of Great Britain and America. Rev *Edinburgh Rev*, Oct 1966, 511-52.

3397. -----1866, 2nd edit

Antique Gems: |...| [a different engrav gem orn] | Second Edition. | London: |...| 1866. |...

Merely a reprint; while the gem on the titlep is different, the explanation remains that for the gem in the first issue! Now in reddish-purple cloth, beveled bds, blind frames on both covers & same gold gems, but frames lack corner orns; spine with ornamental rules; muted vermilion, dull-finish endp; same page size; uncut. Adverts absent. JSL.

3398. -----1861?

Notices | Of | Collections Of Glyptic Art | Exhibited By The | Archaeological Institute of Great Britain and Ireland | in June, 1861. | By The Rev. Charles W.King, M.A., | Senior Fellow Of Trinity College, Cambridge. | (Reprinted from the Archaeological Journal.) | London: At The Office Of The Archaeological Institute | 26, Suffolk Street, Pall Mall.

8°: [1], [1 blank], 47, [1 blank]p. 21.7 x 14.2 cm(8 1/2 x 5 5/8 in). Cropped. USGS Kunz Coll. Cont: tp(supplied); Royal Collection, Besborough Collection, Arundel Collection. Comments.

3399. -----1864

The Gnostics | And Their Remains, | Ancient And Mediaeval. | By C.W.King, M.A., | Fellow Of Trinity College, Cambridge, Author Of "Antique Gems." | [oval wood engrav gem] | London: | Bell And Daldy, 186, Fleet Street. | Cambridge: Deighton, Bell, & Co. | MDCCCLXIV.

8°: xvi, [1], [1 blank], 251, [1 blank]p; wood engrav front pl tip-in; 7 other wood engrav pls; 14 litho pls, all tip-in, some numbered. Dk ivory cloth, blind frames on covers; elaborate gold floral filigree design on front cover; gold rules & lett, floral orn on spine. Dull-finish olive-brown endp. Uncut. JSL; USGS Kunz Coll, GS 33-218.

Cont: 1/2tp; pl; tp; print data; pref; tab cont; errata; text; ill explan; addenda; index.

King asserts that nothing on the subject of the Gnostics has been previously attempted in the English language except for B Walsh's *An Essay on Ancient Coins, Medals, and Gems*, which see, and which he then proceeds to demolish with his usual sharp criticism of any work that touches upon a field in which he considers himself an expert, if not the sole authority. His present work is a historical account of the cult, its offshoots, and its relations to other forms of religion in Western and Eastern civilizations, but made remarkable by his extensive use of engraved gems which bear symbols of gnosticism and serve to

THE NATURAL HISTORY,

ANCIENT AND MODERN,

OF

PRECIOUS STONES AND GEMS,

AND OF

THE PRECIOUS METALS.

By C. W. KING, M.A.,

FELLOW OF TRINITY COLLEGE, CAMBRIDGE;
AUTHOR OF 'ANTIQUE GEMS,' AND 'THE GNOSTICS AND THEIR REMAINS.'



"IOVI CVSTODI ET GENIO THESAVRORVM."

LONDON:
BELL AND DALDY, 186, FLEET STREET.
CAMBRIDGE: DEIGHTON, BELL, AND CO.
1865.

3401. C W King was accused of taking his first book on gems and creating a whole family of "outgrowths," one of which is shown here

support the conclusions that he reaches in the text. Gnosticism is therefore examined from Asia into the Mediterranean and Europe, all of it forming an interesting, exotically-flavored treatise. More than a few words are devoted to the illustrations of gems by King in his preface, many being crude sketches prepared by King himself but excused as being faithful to the original gems, and indeed, in many instances, "flattered" them.

3400. -----1887, 2nd edit

The Gnostics |...| C.W.King, M.A. | [wood engrav of gem] | "Nam veluti pueri trepidant atque omnia caecis | In tenebris metuunt, sic nos in luce timemus | Interdum nilo quae sunt metuenda magis quam | Quae pueri in tenebris pavitant, finguntque futura." | Second Edition | London: | David Nutt, 270, Strand. | 1887.

8°: xxiii, [1 blank], 466 p + 14 litho pls bound-in at end(Pls A-O, with "I" purposely omitted); front ill + 19 text wood engravs, mainly tailpcs. Olive-green cloth, blind frames on covers, small gold oval gem on front; gold lett, rules on spine. Dk dull-finish, gray-brown endp. 25.3 x 15.9 cm (10 x 6 1/4 in). Te uncut. JSL.

Cont: blank p; front; tp; publ data; pref; tab cont; introd; text in 5 parts; ill explan & pls; append(biblio by Joseph Jacobs p 449-56); index; plates.

Refined, more logically presented, with related materials placed together in the several text parts but still treating the same themes. Traces the origins of the cult, worship of Mithras and Serapis, origin of Abraxas, monuments of gnosticism, origin and development of the Templar movement, the Rosicrucians and Freemasons. Abraxoid gems are particularly described in the third part, p 215-44, passim, and 245-79, while much on the figured monuments of gnosticism appears in the fourth part with more information on engraved gems. C Bonner, *Studies in Magical Amulets*, p 45, which see, rejects the value of King's work, stating that "taken as a whole... [it] is a book from which a modern investigator can draw little profit." The illustrations of engraved gems on the plates retain much of their original crudity but obviously have been redrawn to make them less so.

3401. -----1865

The Natural History, | Ancient And Modern, | Of | Precious Stones And Gems, | And Of | The Precious Metals. | By C.W.King, M.A., | Fellow Of Trinity College, Cambridge; | Author of 'Antique Gems,' And 'The Gnostics And Their Remains.' | [woodcut engrav gem] | "Iovi Cvstodi Et Genio Thesavrvm." | London: | Bell And Daldy, 186, Fleet Street. | Cambridge: Deighton, Bell, And Co. | 1865.

8°: xii, 442 p; 6 tip-in wood engrav pls; 45 wood engrav tailpcs of engrav gems. Tan cloth, blind frames on covers; oval gold engrav gem on front; gold rules, lett, floral orn on spine. Light brown, dull-finish endp. 25.4 x 16.1 cm(10 x 6 3/8 in). Te uncut. LC 9-1155. JSL.

Cont: 1/2tp; tp; pref; tab cont; introd; text; notes; descriptions of tailpcs; index.

Remarkable, encyclopedic, presenting several dozen essays on gemstones, including those mentioned by ancient writers and still imperfectly identified. Each essay provides remarks on properties, sources, ancient uses, modern commercial uses, and employments in the arts. The first essay, by way of being an introduction, discusses the knowledge of mineralogy as displayed in the writings of the ancients and its development up to modern times, all gleaned by King from numerous literary sources. However, the main body of text takes up the gemstones in alphabetical order, followed by essays on pastes, the translation of the Orphic poem, p 375-98, with a commentary, jewelry of the ancients, chemical analysis of gemstones, sales prices of precious stones, weights and designs of famous gems, a note on colored diamonds, notes on portions of the text, and lastly, notes on the engraved gems used by King to ornament his book. The plates are of special interest because they depict, among other things, forms of mineral crystals, outline drawings of famous diamonds, the Devonshire emerald crystal, and some famous jewels. Despite its age and its sometimes controversial opinions, this book is a delight to explore and the seeker of the unusual in gemological ana will find much to please him.

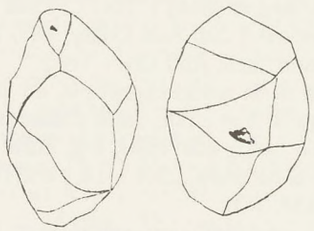
It may not be amiss at this time to mention that this treatise, like his Gnostics, is an example of the fractionation & expansion process alluded to by Furtwängler in the first entry above, and from the present work grew other offshoots, each bearing related titles, as described below. These are sometimes said to be "second editions" of the present work but are here regarded as



The Devonshire Emerald, 8 oz. 18 dwts. found at Muro, near Santa Fé di Bogota: purchased by the Duke from Dom Pedro.



Emerald-girdle of Indian-cut stones. The Persian Diamond, "Sea of light."



"Star of the South," rough, 254½ c.

To face p. 415.

3401. Plate from No 3401 showing the famous Devonshire emerald crystal

sufficiently different, both in respect to major textual revisions and subject matter, to deserve treatment as independent works. It should also be mentioned here that King was unlucky in his choice of publisher Bell And Daldy, who chose exceedingly poor binding materials with the result that the majority of King books quickly disintegrated with use. Reviewed in detail in *Edinburgh Review*, July, 1866, 228-60.

3402. -----1866

The Handbook | Of | Engraved Gems. | By C.W.King, M.A., | Fellow Of Trinity College, Cambridge, And | Author Of 'Antique Gems,' Etc. | With Numerous Illustrations. | [oval wood engrav of gem] | [wavy rule] | Sardonychus, smaragdos, adamantas, iaspidas, uno | Versat in articulo Stella, Severe, meus: | Multas in digitas, plures in carmine gemmas | Invenies; inde est haec, puto, culta manus. | Mart. | [wavy rule] | London: | Bell & Daldy, 6, York Street, Covent Garden, | And 186, Fleet Street. | 1866.

8°: xiii, [1], 396 p; wood engrav front pl tip-in with tissue; 5 tip-in copper pls; 25 tip-in wood engrav pls; 17 wood engrav as ch orns. Tan cloth, orn red single-rule frame on cover enclosing a gold oval gem; same frame on back; gold lett, rules on spine with gold logo & red rules. Bev bds. Dk gray-blue endp. 20 x 13.3 cm(8 x 5 1/4 in). Te uncut; fe untrimmed. JSL.

Cont: 1/2tp; pl; tp; publ data; pref; tab cont; errata & directions to binder; 9 chs; index.

Primarily a complete history of the art of gem engraving, with additional material amplifying or embellishing this theme. The first chapter, fully 183 pages, is historical, and is followed by chapters on famous rings & signets, cabinets of engraved gems in Europe, artist's signatures, a catalog of ancient gem engravers, and a lengthy ode to the bronze statues in the Gymnasium of Zeuxippus composed by a certain Christodorus which seems inserted for no ascertainable reason. Further chapters describe the gems shown upon the plates and elsewhere, with a final chapter of notes. All of it is written in King's meticulous style, elaborated in great detail, and like his previous works, a treasure trove of information, with his descriptions of contemporary gem collections being now of considerable historical importance. Many copies examined all display weak, embrittled cloth, especially on the spine; the backing itself is weak and sound copies are rare.

3403. -----1866, Bohn Libr edit Title, text, ill same, but text sandwiched between 6 f of Bohn's catalog of books, printed on tan-yellow paper, with another f at each end pasted down; standard Bohn cloth binding in dull green elaborately blind-embossed cloth on covers & spine, with spine bearing gold lett & rules, wreath dec. Price 6/-. 18.6 x 12.1 cm(7 1/4 x 4 3/4 in). Cut. Book catalog dtd 1875 indicating at least one reprint. JS.

3404. -----1885, 2nd edit

Handbook | Of | Engraved Gems. | By | C.W.King, M.A. | [wood engrav of gem] | "In tenui labor, at tenuis non gloria si quem | Numina laeva sinunt, auditque vocatus Apollo." | Second Edition. | London: | George Bell And Sons, York Street, | Covent Garden. | 1885.

8°: ix, [1 blank], 287, [1]p + 87 wood engrav pls bound-in(1 fold); fold front wood engrav pl tip-in with tissue; 20 small wood engrav ch orns of gems; another wood engrav pl tip-in facing p 1. Tan cloth, single-rule black frame on covers; gold oval gem on front; black & gold rules & gold lett spine. Dk gray, almost black endp. 25.4 x 16.3 cm(10 x 6 3/8 in). Te uncut; fe untrimmed. USGS Kunz Coll, 33-219; JSL.

Cont: front; tp; publ data; tab cont; pref; descriptions of engravs in text; pl; text; index; publ data; pls.

As in the first edition, the history chapter, p 1-133, is the lengthiest. It is followed by famous rings & signets, cabinets of gems, descriptions of plates, and the catalog of artists. Many changes and additions; poem of Christodorus omitted; plates entirely new although in most instances the same gems are illustrated and now classified as Assyrian, Parthian, Sassanian, Indo-Sassanaian, Sassanian-Christian, Egyptian, Gnostic, Christian, Phoenician, Etruscan, Greek, etc., with plates illustrating the Apotheosis of Augustus cameo, and several other very large cameos, and Roman, Medieval, and Renaissance gems. Among the plates subjects are a cameo of jade from Mexico and the "Emerald Vernicle" or representation of Christ. Another issue differed in omitting the folding front pl, and substituting therefor the pl formerly tipped-in to face p [1]; the text description, however, was not altered and the plate itself still bears the note stating that it is to face that page. As usual, both versions appear most commonly in poor condition.

3405. -----1867

The Natural History | Of | Gems | Or | Decorative Stones. | By C.W. King, M.A., | Fellow Of Trinity College, Cambridge; Author Of 'Antique Gems,' Etc. | [wood engrav of gem] | "Hospita Sacra Ferens, Nulli Memorate Priorum." - Manil. | London: | Bell & Daldy, York Street, Covent Garden. | Cambridge: Deighton, Bell, & Co. | 1867.

8°: xii, 377, [1], [2 blank]p (last 2f supplied, tip-in); wood engrav front ill; 39 text wood engravs of engrav gems. Bright green or terra cotta cloth, single-rule gold outer frame, inner black rule frame with rounded corners, and inside that a gold single-rule lozenge enclosing a gold engrav gem on front cover; back cover with blind frames, no gem; dec gold rules & gold lett, gold gem on spine with black orns. Bev bds. Dk blue-gray endp. 20.3 x 13.3 cm(8 x 5 1/4 in), Te uncut, fe untrimmed. USGS 17-317; JSL.

I have seen a later issue: dk blue-green cloth, no bev edges, square gilt frame enclosing front cover gem, in triple-rule black frame; spine stamped "G.Bell & Sons" instead of "Bell & Daldy;" otherwise identical.

Cont: 1/2tp; front; tp; print data; pref; tab cont; text; descriptions of ill; index; print data; blank f.

This work represents a second stage of fractionation, in this case, of its immediate predecessor of similar title, *The Natural History, Ancient and Modern*, etc, of 1865 above. In the preface King justifies the division by noting that this volume alone, "omitting the precious, treats exclusively of the commoner species of decorative minerals - the term "Gems" being used for want of any more definite appellation." The second volume of this division is described below. Thus the present work presents in alphabetical order 46 gem materials, many of which receive their ancient names, and some thus remaining uncertainly identified, with King giving his reasons for the identity that he favors. Appended to these mineral materials is a contribution on pastes and a description of the illustrations of engraved gems. All of the text is fascinating and is considerably augmented by new matter uncovered by King since publication of the parent treatise.

3406. -----1870, Bohn Libr edit with changed title

The Natural History | Of | Gems, | Or | Semi-Precious Stones. | By C.W. King, M.A., |...| [wood engrav, but now of a male head] | "Iovi Cvstodi Et Genio Thesavrvm." | London: | Bell & Daldy, York Street, Covent Garden. | 1870.

Ill same but front given a tissue guard; text sandwiched between [8]f of adverts on pale yellow paper, first & last f used as pastedowns); Dull green, heavily embossed, gilt, etc cloth binding typical of Bohn; price 6/-. 18.3 x 12.2 cm(7 1/4 x 4 3/4 in). Cut. JSL.

Aside from the title the book is identical with no explanation given as to why the title was changed; possibly the use of the word "gem," which then was almost exclusively reserved for meaning an *engraved* gem, continued to bother King, as expressed in the preface, and who presumably took this opportunity to change to what he considered a more acceptable designation. It is also remarkable that the spine title uses "Decorative Stones" but in a later issue this becomes "Semi-Precious Stones," and the letterpress on the spine is no longer wreathed in gold.

3407. -----1867

The Natural History | Of | Precious Stones | And Of The | Precious Metals. | By C.W.King, M.A., | Fellow Of Trinity College, Cambridge; Author Of 'Antique Gems,' Etc. | [wood engrav of gem] | "Iovi Cvstodi Et Genio Thesavrvm." | London: | Bell & Daldy, York Street, Covent Garden. | Cambridge: Deighton, Bell & Co. | 1867.

8°: xi, [1 blank], 364 p; front wood engrav pl tip-in; 15 wood engrav of engrav gems as tailpcs; 6 tip-in wood engrav pls. Terra cotta cloth, gold single-rule frame border, enclosing black ruled frame with rounded corners, & with gold lozenge enclosing gold engrav gem; blind rules on back cover; orn gold rules, lett, gold gem on spine with black orns. Bev edges. Dk blue-gray endp. 20.4 x 13.3 cm(8 x 5 1/4 in). Te uncut, fe untrimmed. USGS Kunz Coll, GS 34-850; JSL.

Cont: 1/2tp; front; tp; print data; pref; tab cont; introd; text; descriptions of ill; index.

Companion volume to above, treating precious gemstones and the metals used by the ancients but with numerous additions and revisions, and with added essays on the urim and thummim, p 326-34, and the New Jerusalem, p 334-40. In his first essay, King provides a useful review of ancient writings on mineralogical subjects, followed by an essay on the diamond, or "Adamas," which term King prefers, p 39-118, and large enough to serve as respectable monograph by itself; it is remarkable, not only for its historical and mineralogical information, but also for its descriptions of many famous diamonds, and discussion of diamond cutting, tests for diamond, and an interesting note on the art of engraving upon diamond. Other chapters treat silver, works in precious metal plate, gold, the classical precious stones of antiquity, including the pearl, jewelry, chemical analysis, weights of largest known diamonds, and pricing of stones in ancient times and currently. The wood engravings, mostly in line drawing style, show outlines of famous diamonds, English crowns, crystal forms, Devonshire emerald crystal, and other objects.

3408. -----1867, 1870, 1883 Bohn Libr issues, appeared in typical Bohn cloth, [8]f adverts on yellow paper, paged 2-8, 9-15, and end-leaves pasted down. 18.5 x 12.3 cm(7 1/4 x 4 3/4 in). Cut. Tissue supplied to frontispiece. The 1870 issue, dated in title, contains [16]f of adverts, paged 2-15, [16], [17], 18-30, [31]; a reissue of this same date bears a catalog dated 1879 and without the gold wreaths surrounding spine letterpress. The 1883 issue, so dated in title, may be the last and is noteworthy for its somewhat thinner paper and omission of all plates, including the frontispiece. The half-title now reads "Bohn's Illustrated [sic] Library. | [rule] | King's Precious Stones | And | Precious Metals."

3409. -----1868 On a ceraunia of jade converted into a gnostic talisman. *Archael J*, 25, 1868, 103-18. Not seen: Yang, 1587.

3410. -----1870 Catalogue of Colonel Leake's engraved gems... by... Cambridge University, Fitzwilliam Museum, 1870, 15 pp, 3 pls. Not seen: *Metropolitan Museum of Art, NY, Catalog*, vol 9.

3411. -----1872

Antique Gems And Rings. | By | C.W.King, M.A. | Fellow

Of Trinity College, Cambridge. | [wood engrav of gem] | "Those also that cut and grave seals, and are diligent to make a great variety, and give | themselves to counterfeit imagery, and watch to finish a work."- Eccles. xxxviii. 27. | Vol.I. - Text[-II.- Illustrations.] | London: | Bell And Daldy, York Street, | Covent Garden. | 1872.

8°: I: xix, [1 blank], 483, [1]p; 101 wood engrav head- & tailpcs. Tan cloth, elaborate gold border frame using Greek motifs with a gold gem in center of front cover; back cover blind frame only; gold lett, orn bands & rule & orn on spine. Bev bds. Dull-finish, grayish-brown endp. 26.1 x 17.6 cm(10 1/4 x 7 in). Te uncut. LC 10-34200; JSL.

Cont: 1/2tp; print data; tp; print data; pref; tab cont; description of text ill; introd; text; biblio(p 462-70, 58 entries, annot); index; pr data.

Volume II:

Antique Gems And Rings. |...| [large square wood engrav] | Calabresi's Ransom (p.428), enlarged by one-half. | "In tenui labor: at tenuis non gloria, si quem | Numina laeva sinunt auditque vocatus Apollo."- Virgil. | Vol.II. - Illustrations. | London: |...| 1872.

8°: [3], [1 blank], 85, [1]p + bound-in wood engrav pls I.-LVI., actually 65 due to subdivision + copper pls I.-V., and I.-V.[sic], altogether 75; 25 wood engrav head- & tailpcs. The directions to the binder on last text page give the impression that there are 65 copperpls, an error; the numbers "1 to 60" actually refer to individual gems depicted on the first 5 copperpls; correctly, there are 10 copperpls in all. JSL.

As before, this work is derived from King's first publication, but selecting and greatly elaborating certain sections to form this impressive set of volumes. While derivative, it should be regarded as a complete and extremely useful work that easily stands alone as reference whose value continues undiminished with the passage of time. The first volume begins with descriptions of the numerous small illustrations of engraved gems in the text and is followed by a general history of the engraver's art and with chapters on the tests for antiquity in engraved gems (an important one!), forms of gems, gems typical of many cultures, a classification of gems according to Koehler, portraits in gems, various subjects shown on gems, modern examples, rings of various kinds, die-sinkers and gem engravers, seals in materials other than gemstones, casts and how made, and the very useful bibliography which is enlarged and with more comments than given in the original version of *Antique Gems*, 1860. The second volume consists largely of plates, each showing numerous engraved gems, and preceded by a text that is a catch-all of small essays on various subjects, such as the lapidary arts of the natives of the Western Hemisphere, including works in jade and turquoise, some famous cameos, the derivation of the name turquoise, and descriptions of some major engraved gem cabinets. As with other volumes issued by Bell & Daldy, these too suffer from cheapness and subsequent decomposition of cloth, commonly with separated covers, loosened glue along the spine, and other defects in quality of materials and manufacture.

3412. -----1894

K. 1894. | Price 10 Cents. [underlined] | The Metropolitan Museum Of Art. | [orn rule] | Hand-Book No.9. | [orn rule] | Collections | Of | Engraved Gems. | [orn rule] | Published By | The Metropolitan Museum Of Art [New York; nd, ca 1894]

8°: 85, [3 blank]p. Pale gray wrap, cover title. 22 x 14.5 cm(8 5/8 x 5 3/4 in). Cut. LC 12-8553; JSL.

P [3]: "The order of arrangement is Mr.King's own, and the Catalogue has been printed from his manuscript almost without change. This manuscript bears the date February 28th, 1878." The collection, formed by King between 1845 and 1877, was acquired by John Taylor Johnston, president of the museum, and presented by him to the museum in October, 1881. A lengthy introduction gives a history of the art of gem engraving as traced from antiquity to the present, and is followed by the annotated catalog in which the gems are well described, materials given, previous owners, etc, but strangely, no dimensions are provided nor scaled illustrations. An article lauding the collection and describing some of its principal gems appeared anonymously in *Harper's New Monthly Mag*, 59, 353, Sept 1879, 532-41, with 16 ill. Apparently King's collection was first exhibited for sale in the United States in the salon of Messrs Feuerdent & Co, jewelers, of 30 Lafayette Place, New York, in 1879, according to a publicity brochure written by Frédéric Vors, "Expert en objets d'Art," of the same date. It is entitled *A Few Notes On The Collection of Antique Gems of the Rev.C.W.King... On Exhibition with the Feuerdent Collection...* New York, 1879, 8 p, and provides information on engraved gems in general, supplied from King's notes and descriptions of several of the outstanding pieces. J T Johnson, 1820-1893, became a wealthy & influential railroad magnate; *Dict Amer Biogr*.

3413. -----1900 ca; another issue

Metropolitan Museum Of Art. | [orn rule] | Hand-Book No.9. | [orn rule] | The Johnston Collection | Of | Engraved Gems, | In The | Grand Hall. | [orn rule] | Published By The | Metropolitan Museum Of Art.

Edgestapled: 83, [1 blank]p. Pale gray wrap, cover title & price of 15 cents. 22 x 14.5 cm(8 5/8 x 5 3/4 in). Cut. USGS Kunz Coll, GS 34-794.

KING, C W, see MARBOD, 1866, also ORPHEUS, 1865

3414. KING, ELBERT A, Jr

Bureau of Economic Geology | The University Of Texas | Austin 12, Texas | John T.Lonsdale, Director | [rule] | Report of Investigations - No. 42 | [rule] | Texas Gemstones | By | Elbert A.King, Jr. | [logo] | February 1961

Centerstapled: 42, [2 blank]p; 6 photos on 3 pls; 20 fig; tab. Pale blue wrap, cover title. 25.4 x 17.4 cm(10 x 6 7/8 in). Cut. $.50. LC 61-63394; JSL.

Preliminaries on crystallography and lapidary work; gemstones are amber, augite, beryl, celestite, diamond, epidote, fluorite, fossil wood, gadolinite, garnet, jet, labradorite, microcline, obsidian, opal, pearl, quartz, sanidine, spinel, tektite, topaz, tourmaline, and turquoise; glossary, refs.

3415. -----1962 Field investigation of Georgia tektites and description of new specimens. *Georgia Mineral Newsletter*, Georgia Geol Survey, Atlanta, vol 15, nos 3/4, Fall-Winter 1962, p 84-9, 2 fig, 3 pls. JSL. Important for being an early announcement of Georgia tektites, only recently discovered. Describes local geology, various specimens depicted, cross-sections shown in polarized light, lists known finds and places where found, descriptions of specimens which strongly resemble

Czechoslovakian moldavites. In same issue: George Baker, p 62-83, plates, on present knowledge of tektite ages but confined to australites. See also King's "New data on Georgia tektites," *Geochimica et Cosmochimica Acta*, 28, 1964, 915-19, and "Major element composition of Georgia tektites," *Nature*, 210, 5038, May 21, 1966, 828-9.

3416. KING, FRANCIS P A preliminary report on the corundum deposits of Georgia. *Geol Survey Georgia Bull* 2, Atlanta, 1894, printed wrap, 133, [5] p; front photo pl; fold doublep pl in color showing geol Northern GA; 4 other photo pls of deposits; 12 fig. Also in orangey-brown cloth. JSL. While very little gem corundum has been found in this state this work is interesting because of its comments on corundum gemstones, ie, history of corundum, nomenclature, gem varieties, descriptions of all varieties, mineralogy of deposits, and American literature on corundum, p 116-8, 43 entries.

KING, PERCY J, see BURDETT, FRED D

KIRANUS

Fabled ancient King of Persia, to whom is ascribed a book of secrets which includes the magical properties of stones. "The virtues, especially medicinal, of plants and animals comprise the contents of a work in Latin of uncertain date and authorship, usually called the *Kiranides* of Kiranus, King of Persia," (Thorndike, *History of Magic*, 2, 229, an entire chapter devoted to this work but not mentioning stones). The fullest discussion of the Kiranides that I have encountered is in De Mély & Ruelle, *Les lapidaires de l'antiquité* etc, 2, fasc 1 & 2, and 3, fasc 1, 1898-1902, which see. The The Greek text appears in vol 2, 1, p 3-124, sources p IX-XIII, with variants and additions in vol 2, 2, 29-315. The translation into French is given in vol 3, 1, p 33-140, with an extended commentary on p LXII- LXXV. See also the considerable remarks on several editions known to him by John Ferguson, *Bibliographical Notes on Histories of Inventions and Books of Secrets*, VI, p 16-18 as follow. See also Agassiz III, 359.

3417. -----1638 Moderante Auxilio Redemptoris Supremi, Kirani Kiranides, Et ad eas Rhyakini Koronides. Qvorum ille In Qvaternario tàm Librorum, qvàm Elementari, e totidem Lingvis, Primò Gemmis XXIV. Herbis XXIV. Avibus XXIV. ac Piscibvus XXIV.... [etc].

"It was privately printed in Germany in 1638... I am not aware that any description of it is extant in English. There are copies of the Latin and the translation [in Engl, see below] in the British Museum." Ferguson also notes that after the above title is a preface by the editor of 16 pages, then another title-page, on its reverse a dedication, a preface by the "old translator which contains an account of the book and the meaning of the name; after which the description of the secret virtues of beasts... and gems begins on p.8, and ends on p 104." Further details on pagination and contents are supplied, the text apparently ending on p 159, after which are indexes, for another 23 pages. "There appears to have been a second edition of this book."

3418. -----1685, Engl transl The Magick of Kirani King of Persia, and of Harpocration; Containing the Magical and Medical Vertues of Stones, Herbs, Fishes, Beasts and Birds. A Work much sought for by the Learned, but seen by few; said to have been in the Vatican Library in Rome; but not to be found there, nor in all the Famous Libraries of the Empire. Now Published and Translated into English from a Copy found in a private hand. Printed in the Year MDCLXXXV.

Place & printer's name not given; small 8°; contains title & preface, [16] pages; epistle, [8]p; text in 156 pages; indexes [14] pages. Ferguson does not describe the substance of the text but from other sources it is learned that the first section on stones treats the magical and medicinal virtues, with advice on preparation of medicines, how to affect cures of ailments, making talismans, and so forth, and also noting that certain talismans require use of gems suitably engraved with specific characters or representations. Among the mineral and gemstone materials are aetite, the "eagle stone," beryl, emerald, dendrite, pyrite, coral, jasper, obsidian, lyncurium(amber), onyx, porphyry, lapis lazuli, and some others which are no longer identifiable.

KIRCHER, ATHANASIUS (1602-1680)

Ger polymath, prolific author scient & other treatises; b nr Fulda; educ Würzburg Jesuit Seminary; ord priest 1628; prof math, philos & oriental langs in that city; to Avignon, Fr to study antiquities; prof math Collegium Romanum, Rome, 1635-43; after retirement from latter duties began writing his numerous, massive treatises; d Rome. For most recent biogr & criticism his works as well as refs to other writers on Kircher, see Joscelyn Godwin's *Athanasius Kircher, A Renaissance Man and the Quest for Lost Knowledge*, London: Thames and Hudson, 1979, 96 p, esp p 84-93, dealing with below; see also excellent comments this work by F D Adams, *The Birth and Development of the Geological Sciences*, 1938(Dover, NY, 1954), p 255, 433-9; J Ferguson, *Bibliotheca Chemica*, I, 466-8; L Thorndike, *History of Magic*, etc, numerous citations, vols 7 & 8;Agassiz III, 362; *Biogr Univ*, 22, 441.

3419. -----1665

Athanasii Kircheri | E Soc Jesu | Mundus | Subterraneus, | In XII Libros digestus; | Qvo | Divinum Subterrestris Mundi Opificium, mira | Ergasteriorum Naturae in eo distributio, verbo ["pantamorphon" in Greek] | Protei Regnum, | Universae denique Naturae Majestas & divitiae summa | rerum varietatae exponuntur. | Abditorum effectuum causae acri indagine | inquisitae demonstrantur; cognitae rer Artis & Naturae conjugium ad | humanae vitae necessarium vario experimentorum apparatu, | necnon novo modo, & ratione applicantur. | Tomus I. | Ad | Alexandrum VII. | Pont.Opt.Max. | [rect engrav vignette] | Amstelodami, | [rule] | Apud Joannem Janssonium & Elizeum Weyerstraten, | Anno cIↃ IↃc LXV. Cum Privilegiis. [Amsterdam, 1665]

Printed title preceded by full-engrav title showing World suspended from Heaven's hand, with allegorical figs & banner giving author & title, and below a rectangular panel stating "Amsterodamj [sic]...1665." In my copy, vol 2 fitted with engrav title only, dated, strangely, 1664.

2°: I: engrav f + [28], 346, [6]p; $*^4$, $**^6$, $***^4$, A-Xx^4. II: engrav f + [12], 487, [9]p; $(*)^6$, *A-Qqq*^{4}. Engrav portrs of Pope Alexander VII(Fabio Chigi, 1599-1667) & Kircher(at age 66), both pls folded vertically; 216 text wood engravs, several printed on separate sheets & bound-in; 63 copper engravs in text; 12 double-f & single-f copper engrav pls bound-in. Particularly interesting: 2 text volvelles, p 154 & 156 Vol I, the first consisting of 2 copper engrav disks mounted upon a circular wood engrav in text; the second consists of one revolving disk, engrav; 6 fold fold tabs bound-in not includ in pag. 40.8 x 23.7 cm(16 1/8 x 9 1/4 in). Cropped.

Cont:I: engrav title; print title; imprimatur; privileges; Alex VII portr; dedic; prefs (1, With doublef engrav of Vesuvius &

ATHANASII KIRCHERI
E SOC. JESU

MUNDUS SUBTERRANEUS,

In XII Libros digestus;

QUO

Divinum Subterrestris Mundi Opificium, mira Ergasteriorum Naturæ in eo distributio, verbo παντάμορφον Protei Regnum,

Universæ denique Naturæ Majestas & divitiæ summa rerum varietate exponuntur. Abditorum effectuum causæ acri indagine inquisitæ demonstrantur; cognitæ per Artis & Naturæ conjugium ad humanæ vitæ necessarium usum vario experimentorum apparatu, necnon novo modo, & ratione applicantur.

TOMUS I.

AD

ALEXANDRUM VII.
PONT. OPT. MAX.



AMSTELODAMI,
Apud JOANNEM JANSSONIUM & ELIZEUM WEYERSTRATEN,
ANNO clɔ Iɔc LXV. Cum Privilegiis.

3419. Kircher's massive and lavishly illustrated "Mundus subterraneus" includes much on gemstones and minerals

2); tab cont; Kircher portr; text; list of Kircher's works; index. II: engrav title; dedic; proemium; tab cont; text; index

Kircher's aim in this work is to gather together everything that could be found on the underground world of Planet Earth. Like his other works, all dismissed by Ferguson (ibid, I, 468) as "in number, bulk, and uselessness... not surpassed in the whole field of learning," the *Mundus Subterraneus* is also a massive compilation but its value is placed higher by K v Zittel, 1901(Engl transl), p 25, who states that "in spite of its many weaknesses and inaccuracies...must always command a high place in the literature as the first effort to describe the earth from a physical standpoint." Zittel gives specific examples in which the work is valuable, while Thorndike(ibid) satisfies himself largely with places in the text wherein magical properties of substances, credulity in miracles, and alchemy are treated. F D Adams, mentioned above, devotes most of his discussion of Kircher's material to the origin of springs and rivers, about which the *Mundus Subterraneus* had much to say as well as providing classic engravings of Kircher's ideas on the subject. None of the authorities comment upon the considerable gemological material incorporated by Kircher in various places in his second volume, book eight, p 1-86. The book begins with a classification diagram of mineral substances in which gemstones appear among the "durables," and followed by another table (p4) in which the classification scheme is subdivided even further for "stones and gemstones." Citing previous authorities, Kircher discusses color in gemstones, and causes of same, transparency in gemstones, and figures in gems, p 8-24. One of the text copper engravings on this page shows several mineral specimens and crystals and is precisely the same as the two engravings found in Boetius De Boodt's *Gemmarum et Lapidum Historia*, 3rd edit, 1647, p 217-8; inasmuch as the engravings were struck from the same plates, it suggests that they were borrowed from the publisher Joannes Maire, in Leyden. In a later place, p 74-7, Kircher describes and discusses the electrical and medicinal properties of amber, followed on p 78-82 by a large summary table of minerals and gemstones arranged in alphabetical order from Adamas to Turchesia, a glossary of mineral names with Greek equivalents, and a highly important treatise on the twelve gemstones in the breastplate of the High Priest, giving Hebrew Biblical excerpts on same, a table of the gemstones in Latin, Hebrew, Greek, and Arabic, and a diagram showing the position of the stones in the breastplate.

3420. -----1668, 2nd edit This edition is said to be an exact reprint, with type reset, of the first edition, with the two portraits not included. 2 volumes in one, 14 f, 346 p, 3 f; 6 f, 487 (1)p, 4 f. Engrav title to each(dated 1665). Amsterdam, 1668. There is a copy in the British Museum.

3421. -----1678, 3rd edit Mundus Subterraneus...Editio Tertia...Amsterdam, Joan. Janssonius Waesbergen & Zonen, 1678. Folio in one vol, 10 f, 366 p, 3 f; 4 f, 507 p, 4 f. Engrav titles; general title with vignette; 228 woodcuts and 96 engravings, more than half of which are fullp. Not seen; foregoing from a London bookseller's catalog of 1967. This is called the "best edition," also the "most complete," with new illustrations and revisions.

3422. -----1682, Dutch transl d'Onder-aardse Weereld in Haar Goddelijk Maaksel en wonderbare uitwerkselen aller Dingen; door den Eerwaardigen Vader Athanasius Kircherus in XII Boeken naukeurig beschreven. Vervat in II Deelen...Nu eerst uit het Latijn vertaalt...t'Amsteldam, by d'Erfgenamen van wylen Joannes Janssonius van Waasberge, 1682. Both books in one vol: [18], 425, [11] p; [8], 415, [13] p; engrav front, 13 fold or doublep pls & maps, etc. Not seen,. from Antiquaariat Junk catalog of June 1976.

3423. KIRCHHEIMER, F Beiträge zur Kenntnis der Flora des baltischen Bernstein. I.Beihefte zum *Botanischen Zentralblatt*, Cassel, Abt B, Bd 57, H 3, 1937, 441-82. Not seen.

3424. KIRCHHOFF, ANTON(1606-1648)

in Dei Gloriam, | Autoritate | Facultatio Philosophicae | De | Gemmis | Philologica | Proloco, P.P. | Lipsiae, | M.Antonius Kirch-hoff [sic]. | M.Mart. VIII. | [rule] | Ex primebat Joannes Albertus Minzelius. | Anno M DC XXXIV. [Leipzig, 1634]

4°: [24] p; A-C^4. BM(NH) Libr, also Banks Libr. Not seen. Cont: tp; ltr of Beroaldus to Ulderic Rosens; dedic; text. Hoover cata; Gatterer II, 16, noting "Dissertatio I. et II. de gemmis, Lipsiae, 1634, 1636." The author was a prof of ethics, Leipzig U.

KIRCHMAIER, or KIRCHMAYER, KIRCHMAJER, GEORG CASPAR(1635-1700)

Ger chemist, scholar; b Franconia; prof elocution Wittenberg; to him is attributed the art of etching glass with hydrofluoric acid. Pogg I, 1261.

3425. -----1660

Q.D.B.V. | De | Gemmis, | in | Florentissimâ Wittenbergâ | Publicè disputabunt: | Praeses, | M.Georgius Caspar | Kirchmaier, | & | Respondens, | Christophorus Mullerus, | Gräffenhänichaenus Misnicus. | Ad d.26.Martii, Hor.Pomerid. Anno 1660. | Loco Solito. | [rule] | Wittebergae, | Typis Matthaei Henckelii.

4°: [16]p; A-B^4. Cont: tp; text. BM(NH) Libr. Defines gems, their properties, detection of false gems, and answers several miscellaneous gemological questions. Gatterer II, 16 gives date of 1659; Hoover cat.

KIRCHMANN, JOHANN (1575-1643)

Ger poet, lit scholar; b Lübeck; attend univs of Frankfurt, Jena, Strassburg; in 1601-2 traveled as companion to a wealthy young person in Italy, France; stud at U Altorf, Rostock, in 1613 apptd rector, Gelehrten Schule in in Lübeck; noted for antiquarian studies. *Allg Dt Biogr*, 16, 14-15.

3426. -----1623

Johannis | Kirchmanni | Lubecensis | De | Annulis | Liber Singularis | 16 [woodengrav logo] 23. | Lubecae, | Typis & Sumptibus Samuelis | Jauchii, Bibliop.

8°: [16], 275, [20], [1 blank]p;):(^{8}, A-S^8, T^4. Ch orns, inits in wood engravs. 15.1 x 9.1 cm(6 x 3 5/8 in). Cut. USGS Kunz Coll, GS 33-252;JSL.

Cont: tp; dedic to Rutgers; Rutgers' ltr; 25 chs; errata & addits; indexes of author, subjects, words; blank p.

An extremely thorough, scholarly work on the finger-rings of antiquity, covering their significance, uses, types, metal rings, rings set with engraved gems, signet rings, talismanic & magical rings, official rings, etc. Numerous references are made to earlier literature in which rings are described or famous examples

mentioned. As may be divined from the following comments, this work is the finest of its kind published up to that date in addition to being the first major work on the subject: it is the fundamental treatise upon which subsequemt works were based. Mariette, *Traité pierres gravées*, 1, p 254-5, notes the existence of earlier works on the subject but dismisses them as being of little value compared to Kirchmann's book. King, Antique Gems and Rings, 1, 465, perhaps envious of the obvious skill and throughness displayed in the work, and frankly expressing pique, notes that it is "a work containing perhaps the greatest amount of learning and research ever compressed into the same small compass, presenting almost everything that can be discovered as to the use of rings and seals in ancient and mediaeval times. Upon its author, the Lubeck antiquary, I for one, may with good cause invoke the anathema, "Perant qui ante nos nostra dixere!" for he has anticipated, and often as it were... many of my own fancied and favourite discoveries in this before, as I vainly supposed, untrodden field." Furtwängler, *Die antiken Gemmen*, 3, 404, acknowledges its importance, characterizing its author as "exceedingly industrious, detailed and accurate... who collected all the evidences of antiquity with the greatest possible completeness," and further, "today it is still not replaced by anything better," and "there appeared in the course of time other writings of scholars on the same them but all are dependent on Kirchmann." *Allg Dt Biogr*, ibid, "eine ziemlich bunte, aber ebenfalls von grosser Belesenheit und verstandigen Urtheil zeugende Sammlung von Notizen über die Formen und den Gebrauch der Ringe bei verschiedenen Volkern der Altherthums und der neueren Zeit." See also comments of Zazoffs, *Gemmensammler*, 31-2.

3427. -----1657, 2nd edit

Johannis | Kirchmanni | Lubecensis | De | Annulis | Liber Singularis. | [orn] | Slesvigae | excudebat John Holvvein, | Sumptib. Johannis Carstens, Bibl. | [rule] | Anno M DC LVII. [Schleswig, 1657]

Additional engrav title:

Johannis | Kirchmanni | Lubeccensis | de | Annulis | liber singularis | ab ipso Autore recogni | tus et auctus | Slevici Sumtibus | Johannis Carstens | Bibliopolae Sles | wicensis | Anno 1657 [at bottom: "C. Rothgiesser fecit"]

This title shows two cupids supporting a ring with part of the title inside; they stand upon plinths decorated with rings.

8°: [24], 292, [25], [3 blank]p (engrav tp included in pag);)(^{8},)()(^{4}, A-T^{8}, V^{8}. Ch orns, inits in wood engrav. 15.6 x 9.4 cm(6 1/8 x 3 3/4 in). JSL.

Cont: engrav tp; tp; dedic to Johann Kielmann by Johannes Kirchman; dedic to Rutgers; Rutgers' ltr; 11 other ltrs; text; indexes; 3 blank p.

Issued posthumously by the author's son, Johannes Kirchman; errata of first edit now corrected but aside from additions in the front matter, the text appears to be identical. The printed title is now given a woodcut ornament, a woman's head, and of the kind commonly used as a tailpiece.

3428. -----1672, 3rd edit

Joh.Kirchmanni | Lubeccensis | De | Annulis | Liber | Singularis. | Accedunt | Georgii Longi, | Abrahami Gorlaei, | Et | Henr. Kornmanni | De iisdem Tractatus absolutissimi. | [woodcut logo] | Lugd.Batav. | Apud Hackios, | CIO IO C LXXII. [Leyden, 1672]

Additional engrav title:

J.Kirchmannus | et Alii | De Annulis [Title shows a robed woman atop a platform, bearing a casket, and examining rings offered by several merchants]

12°: [24], 249, [27]p;(engrav tp supplied, bound-in, & includ in pag); *^{12}, A-L^{12}, M^{6}, N^{6}, O-Z^{12} (collation for entire work). JSL.

Cont: engrav tp; tp; dedic(to Kielmann), dedic(to Rutgers); Rutgers ltr; 11 ltrs; text; indexes, of the main work, followed by:

Georgii Longi, | Sacerdotis, Doctoris, & Ambro- | sianae Bibliothecae custodis primi | Tractatus | De | Annulis Signatorii | Antiquorum | Sive | De Vario Obsignan- | Di Ritu. | [same woodcut] |... [same publ, date]

140, [21], [1 blank]p; engrav on p 55 of 3 key-rings. Cont: tp; 11 chs; index to authors; index to subjects & words; blankp. Followed by:

Abrahami Gorlaei | Antwerpiani | Dactyliotheca, | Sive | Tractatus | De | Anulorum | Origine, | Variis Eorum Generibus Et | Usu Apud Priscos. | [same woodcut] |... [same publ, date]

22 p. Cont: tp; text. Followed by:

SIMPLE RULES

FOR THE

DISCRIMINATION OF GEMS

BY

T. S. G. KIRKPATRICK

M A. OXON.

AUTHOR OF 'THE HYDRAULIC GOLD MINER'S MANUAL'

London:

E. & F. N. SPON, 125 STRAND

New York:

SPON & CHAMBERLAIN, 12 CORTLANDT STREET

1895

3429. A scarce small treatise on gem identification of no great value

De | Annulo | Triplici: | Usitato, | Sponsalitio, | Signatorio: | Tractatus absolutissimus, in | tres partes divisus. | Auctore | Henrico Kornmanno | Ex Kirchaina Chattorum. | [same woodcut] |... [same publ, date]

65, [3]p. Cont: tp; text in 3 parts; index to authors.

In this edition, the last that I can discover, the text remains the same for the basic work but it is now augmented by George Long's work on rings which was originally published in 1615, which see, Gorlaeus(De Goorle) brief dissertation on rings which first appeared in the introduction to his *Dactyliotheca*, 1601, which see, and Kornmann's treatise on rings which appeared in 1654, Not seen.

3429. KIRKPATRICK, THOMAS SAUNDERS GODMAN

Simple Rules | For The | Discrimination Of Gems | By | T.S.G. Kirkpatrick | M.A. Oxon. | Author Of 'The Hydraulic Gold Miner's Manual' | London: | E. & F.N.Spon, 125 Strand | New York: | Spon & Chamberlain, 12 Cortlandt Street | 1895

8°: vii, [1 blank], 20, [1], [3 blank] p. Dk green or gray full leather; orn title in gold on cover with gold diamond crystal, captioned "205 1/2 ct. Vaal R." Rounded corners. Dull finish dk blue-green or gray endp. 16.2 x 10.3 cm(6 3/8 x 4 in). Cut. USGS Kunz Coll, GS 17-422; JSL.

Cont: 1/2tp; tp; pref; text; tables; index; 3 blank p.

This small practical work begins with brief but valueless discussions of crystallography and mineral properties, but goes on to explain specific gravity and how it is determined by the total immersion method, along with use of hardness points. The Mohs scale of hardness is accompanied by quaint mnemonic device for aiding the memory. There are short tables, by color, of the principal gemstones with densities and hardnesses. Hints are given for discriminating chatoyant and black stones, and for platinum, cassiterite, and a few minerals. A very scarce work.

KIRMAN, ALEX, see KASSOY, I, INC

KIRWAN, RICHARD (1733-1812)

Irish chemist, geologist; b Galway, Ireland; studied for the priesthood, law, and later, sciences in London; Fellow Roy Soc, Copley Medal 1782; in later years settled in Dublin, joined Roy Irish Acad and later became pres in 1799; many mbrships in learned socs, hon degrees, etc. The below work "was the first systematic treatise on the subject in English, and was translated into French, German, and Russian." DNB; Partington 3, 663.

3430. -----1784

Elements | Of | Mineralogy. | Richard Kirwan, Esq; F.R.S. | [orn] | London: | Printed for P.Elmsley, in the Strand. | M.DCC.LXXXIV.

8°: xviii, 412, [12] p; A^8, a^2, B-CC^8, Dd^6, lambda^6 (the last gathering on considerably thinner, more translucent paper). 21.2 x 13.1 cm (8 1/4 x 5 1/8 in). Cut. JSL. GS 11-133.

Cont: tp; pref; tab cont & errata; text; tabs; index.

In his preface, Kirwan deplores the lack of progress in the science of mineralogy in Britain, applauds the progress made in Europe, especially among the Swedes, Germans, and French, and then gives his reasons for writing the present work. This is the first systematic mineralogy in English that is based on the chemical compositions of minerals (as determined primarily by the European savants) combined with the Wernerian method of using external features & properties of minerals as a means of identification. While mentioning crystallizations(as appropriate)in his descriptions, he is not convinced of the merits of using crystal morphologies as an added means of characterizing individual species as advocated by Romé De Lisle in particular. He concludes that "mineralogy must therefore, on the whole, be considered as a branch of chymistry." Accordingly he divides his minerals into the following classes: earths & stones, which includes the most common non-metallic minerals, and in other classes comprehending salines & acid compounds, inflammables, and metallic minerals and the metals. In the first part of the text he appends to earths & stones a separate chapter on diamond & plumbago, and another chapter on analytical procedures for the foregoing materials. An appendix to the second part entitled "Geological Observations," treats the formation of crustal rocks and mountains, and has been the subject of considerable discussion among geologists though it has little to do directly with the main part of the work. Several tables are provided which give results of mineral analyses. In the first part, p 171-3, is an interesting table listing specific gravities of many gemstones as determined by a Mr Quist and published in Stockholm. In the discussions of calcareous minerals, much is to be found on decorative marbles, but the principal gemstone species are described under the "Siliceous Genus" heading, generally on p 103-32, and including all of the crystalline and cryptocrystalline varieties of quartz, opal, corundum gemstones, topaz, beryl, lapis lazuli, jade, garnet, and others.

3431. -----1794-1796, 2nd edit

Elements | of | Mineralogy. | [taper rule] | By | Richard Kirwan, Esq. F.R.S. & M.R.I.A. | Of The Academies Of Stockholm, Upsal, | Berlin, Manchester, Philadelphia, &c. | [rule] | Second Edition, | With | Considerable Improvements And | Additions. | [rule] | Vol. I [-II]. | Earths And Stones [- Salts, Inflammables, And Metallic | Substances]. | [rule] | London: | Printed By J.Nichols, | For P.Elmsley, In The Strand. | [taper rule] | M DCC XCIV [-M, DCC, XCVI [sic]].

8°: I: xxxi, [1 blankl, 510, [2 blank]p; a-b^8, A-Kk^8. 20.8 x 12.8 cm (8 1/8 x 5 1/8 in). Cut. Cont: 1/2tp; tp; pref; tab cont; errata; text; addition; blank f. II: xvi, 529, [1 blank] + errata leaf supplied; a-b^4, A-Z^4 Aa-Zz^4, 3A-3U^4, 3X^2; 6 fold f(tabs) bound-in between 3Q3 and 3Q4(p [486, blank]-493), and included in pagination but numbered versos only. Cont:1/2tp; tp; tab cont: text; blank p; errata; blank p. GS 11-134.

A greatly enlarged and completely rewritten edition, expanded in all parts, and with the addition of many more analyses, property determinations, and new species, etc. First mention of the Leske collection of minerals, numbering some 7331 specimens, which Kirwan notes "hitherto its treasures have been unveiled only to my eyes." Many of his specific gravity and fusibility determinations were performed on specimens from this collection (the details of which, and its catalog, are described under KARSTEN, D L G, which see). Some notes on the acquisition of this collection by Irish "patriots" are given by Kirwan and are highly interesting. The arrangement of matter follows closely that adopted in the first edition, with most of the gemstones being described in the first volume, p 241-337. A good precis of this edition by Franz von Kobell, *Geschichte der Mineralogie*, 1864, p 152-4. There is a 3rd edit, London, 1810; GS 11-135.

3432. -----1785, Fr edit Eléments de minéralogie. Traduits de l'Anglois de M.Kirwan... Par M.Gibelin, Paris, Chez Cuchet, 1785. 8°: XLVIII, 432 p. Not seen.

3433. -----1785, Ger edit Anfangsgründe der Mineralogie... aus dem Englischen " übersetzt mit Anmerkungen und einer Vorrede versehen von D.Lorenz Crell[1744-1816]. Berlin & Stettin: F.Nicolai, 1785. 8°: 8 p, 1, 462, [18]p. Not seen; from J A Hill catalog, NYC, 1984.

KITAB AL-MURSID, see AL-TAMĪMĪ, etc

3434. KITIL, ERWIN El yacimiento der marmol verde de la Cantera Santa Isabel (Provincia de San Luis). *Anales del Museo Nacional de Historia Natural, Mineralogia y Petrografia Publ 12*, T 37, Buenos Aires, 1932, 171-92, pls I-III, figs 1-4. JSL. About the superb-quality green calcite-onyx that has been exported from Argentina for many years: regional geology, the deposit, mineralogy, genesis, economic data; illustrations include plan of workings, photos of specimens.

KITTO, T C, see FINLAYSON, J B

3435. KIVIENKO, E I A [Prospecting and evaluation of deposits of precious and economic stones.] Moscow: Nedra, 1980. 165 p, b&w ill; in Russ. 55 k. Not seen: rev in *J Gemm*, 17, 6, 1981, p 425.

KLAPROTH, MARTIN HEINRICH (1743-1817)

Ger chemist, mineralogist; b Wernigerode, Harz; apothecary apprentice; asst to V Rose in 1770, succeeding him is his position as chemist; apptd prof chem U Berlin at age 67; famous for accuracy & completeness of his analyses; correctly concluded pitchblende contained a new element but unable to isolate, M E Weeks, *Discovery of the Elements*; Pogg I, 1266-9; Farber, I, 293-302.

3436. -----1795-1815

Beiträge | Zur | Chemischen Kenntniss | Der | Mineral-körper | Von | Martin Heinrich Klaproth, | Professor der Chemie bei der Königl Preuss. Artillerie-Akademie; | Assessor Pharmaciae bei dem Königlichen Ober-Collegio medico; | Mitgliede der Königl. Preussischen Akademie der Wissen-schaften, | wie auch der Akademie der Kunst und mechanischen Wissenschaf- | ten zu Berlin, der Kurfürstlich Maynzischen Akademie der Wissen- | schaften zu Erfurt, der naturfor-schenden Gesellschaft zu Berlin | und zu Halle, imgleichen der Societät der Bergbaukunde; | und privilegirten Apotheker zu Berlin. | Erster[-Sechster] Band. | [rule] | Posen, Bei Decker Und Compagnie, | Und | Berlin, Bei Heinrich August Rott-mann. | MDCCXCV[-MDCCCXV].

8°: XVI, 374, [2 advert]p; XII (first 2 p adverts), 332p; X, 331, [1 errata]p; XII, 396 p; VIII, 264, XV (index to first 5 vols), [1 blank1p; VIII, 380 p + 1 fold engrav pl. 18.3 x 11.4 cm(7 5/8 x 4 1/2 in). Cut. BM (NH); Ward & Carozzi, 1269; Dewalque 273.

On p VII of the 5th vol, Klaproth expressed doubt that the work would be continued and accordingly the 5th vol contains an index for all vols; however, a 6th vol was issued in 1815 but with a somewhat different title:

Chemische | Abhandlungen | Gemischten Inhalts, | Von | Martin Heinrich Klaproth, |...[12 lines]...| [rule] | Nebst einer Kupfertafel.| [taper rule] | Berlin Und Stettin, | In Der Nicolai-schen Buchhandlung. | MDCCCXV.

Extensive compilation of Klaproth's analyses and short treatises on various subjects which concern minerals and gemstones: vol 1 sapphire, cat's-eye, chrysoberyl, peridot, lapis lazuli, zircon; vol 2 spinel, Colombian emerald, pyrope, garnets, vesuvianite, chrysoprase, precious opal, hydrophane, common opals, meer-schaum. Vol 3 beryl, emerald. Vol 4 Mexican fire opal, topaz, Swiss jade, olive-green Siberian garnet. Vol 5 kyanite, axinite, semi-opal, bronzite, rubellite, garnet. Vol 6 adularescent feld-spars, labradorite. Many are first reasonably accurate analyses ever made.

3437. -----1801, Engl transl, vols 1 & 2

Analytical Essays | Towards Promoting | The | Chemical Knowledge | Of | Mineral Substances. | [taper rule] | By Martin Heinrich Klaproth, | Professor Of Chemistry, Assessor To The Royal Col- | lege Of Physicians, Member Of The Royal Academy | Of Sciences At Berlin, And Various Other | Learned Societies. | [double rule] | Translated From The German. | [double rule] | London: | [rule] | Printed For T.Cadell, Jun. And W.Davies, In The Strand: | By G.Woodfall, No.22, Pater-noster-Row. | [taper rule] | 1801.

8°: xvi, 591, [1]p; a^8, B-Z^8, Aa-Pp^8. 20.8 x 13 cm(8 1/8 x 5 1/8 in). Cut. BM(NH); Ward & Carozzi, 1270; JSL.

Cont: tp; advert; pref; tab cont; text; errata.

Corresponds to the first 2 vols of the German edition, and containing Essays I-LXXII. In the first essay, Klaproth describes the results of subjecting numerous mineral substances to the intense heat of a "porcelain fire," among them, feldspars, alabaster, marble, beryl(& emerald), tourmaline, quartzes, chryso-beryls, olivines, kyanite, opals, garnets, zircons, corundums, spinels, topazes, etc. Specific experiments and analyses on gem-stones as follows: oriental sapphire, cat's-eye, chrysoberyl, chrys-olite, olivine, lapis lazuli, zircon, spinel, Colombian emerald, oriental garnet, vesuvianite, leucite, staurolite, chrysoprase, Hungarian opal, hydrophane, common opals, meerschaum, Chinese agalmatolite, spessartine.

A second volume of the English translation was published in 1804 to correspond with the third volume of the German edition, but I do not know if additional translated volumes were issued. Many of the individual essays were reproduced in whole or part, or in substance, in various journals, *eg, Beobachtungen d Berlin Ges f Naturforschende Freunde, Höpfner's Magazin, Annales de Chimie, Crell's Chem Annalen*, etc. A number of these essays are noticed in *Banks Catalogue*.

3438. KLAPSIA, HEINRICH Dionysio Miseroni. *Jb d Kunsthist Samml Wien*, NF, 13, 1944, 301-58; not seen. Miseroni and his workmen produced many splendid rock crystal carvings and vases.

3439. KLASSEN-NEKLYUDOVOY, M V & BAGDASAROVA, KH S, editors

Rubin I Sapfir | [red photo] | Izdatelstvo "Nauka" | Moskva | 1974

P [1]: "Ordena Trudovogo Krasnogo Znameni Institut Kristallographii Im. A.V.Shubnikova."

8°: 236 p; 211 fig, 26 tabs. Pale gray cloth, silver & blind lett on cover with central biaxial optical fig in silver & red surrounded by two silver frames; silver lett + silver & red band on spine. 23.8 x 16.6 cm (9 3/8 x 6 1/2 in). Cut. 1 r 91 k. 1800 copies. JSL.

Cont: ser tp & logo; tp; publ data & resume; introd; 6 parts; biblio (p 219-28, 504 entries); index; tab cont; publ data; errata slip.

Technical treatise on synthetic ruby and sapphire in six parts contributed by members of the Academy of Sciences. The introduction briefly describes Verneuil ruby syntheses and early work carried on in the USSR. Topics: structure of synthetic corundum, growth problems, modes of growth, apparatus, examination of crystals (includes a part-col fold pl of a stereo projection), structural defects and their detection and study, elimination of defects, determination of physical properties, mechanical testing, heat treatment, electrical properties. Oriented toward uses in technology and scientific apparatus.

KLEBS, RICHARD HERMANN ERDMANN(1850-1911)

Ger geologist; PhD U Königsberg 1880; to Berlin where became a civil servant; mbr bd of directors of the Amber Mus of Firma Stantien & Becker in Königsberg. Pogg 4, 754. Obit G F Kunz, Science, ns, 34, 1911, 234-5; A Tornquist, *Schrift physikal-ökon Ges Königsb im Preussen*, 52, 1911, 37, with biblio, 11 entries, 1880-1911.

3440. -----1880

Der Bernstein | Seine Gewinnung, Geschichte und geologische | Bedeutung. | [orn rule] | Erläuterung und Catalog der Bernstein-Sammlung | Der Firma | Stantien & Becker. | von | Richard Klebs. | Königsberg i. Pr. | [orn rule] | Druck von G.Landien in Königsberg i.Pr. [1880]

8°: 25, [7]p. 22 x 13.8 cm(8 5/8 x 5 1/2 in). Cut. JSL.

Amber dealers, Stantien & Becker, long-time holders of amber-collecting rights along the Baltic Sea coastline of Prussia, requested Klebs to search their stocks and select therefrom specimens suitable for forming a collection of ambers, especially those containing inclusions. The present work is the result and gives in addition a general account of amber, its properties, etc, as well as describing outstanding specimens. The catalog lists 3,504 pieces of all types and many kinds of inclusions. The catalog was prepared for issuance at the Internationalen Fischerei-Ausstellung (International Fisheries Congress) in Berlin.

3441. -----1882

Beiträge zur Naturkunde Preussens | herausgegeben | von der | physikalish-ökonomischen Gesellschaft | zu Königsberg. | [rule] 5. [rule] | Der Bernsteinschmuck der Steinzeit | von | der Baggerei bei Schwarzort | und anderen Lokalitäten Preussens | aus den Sammlungen der | Firma Stantien & Becker und der physik.-ökonom. Gesellschaft | von | Dr. Richard Klebs. | Mit 12 lithographirten Tafeln und 5 Zinkographien. | (Preis 10 Mark.) | [orn rule] | Königsberg 1882 | In Commission bei W.Koch.

4°: [1], [1 blank], [1], [1 blank], 75, [1 blank] p; 12 litho pls bound-in at end; 5 text fig. Tan paper over cardbds, title in ruled frame on cover; brown cloth spine. 27.1 x 22.5 cm(10 5/8 x 8 7/8 in). Cut. USGS Kunz Coll. LC 8-29096.

Cont: tp; fwd; tab cont; text; pls explan; blank p; pls.

On Stone Age amber artifacts, mostly from amber opencut mines near Schwarzort, Prussia, but including others from various European sites. Detailed descriptions and depictions of hundreds of objects. Discusses dating problems, and probable dates of the artifacts. In the USGS copy the paper is badly browned, brittle, but pls remarkably unaffected.

3442. -----1883

Die Handelssorten des Bernsteins. | Von Herrn R.Klebs. | [rule] | Separatabdruck | aus dem | Jahrbuch der königl. preuss. geologischen Landesanstalt | für | 1882. | [double rule] | Berlin, 1883. | A.W.Schade's Buchdruckerei (L.Schade) | Stallschreiberstr. 45/46. [Wrap title]

8°: [1 blank] p + p 404-35 + [1 blank]p. 25.9 x 17.8 cm(10 1/4 x 7 in). JSL.

Thorough study of commercial grading practises in the amber industry of Prussia: historical notes, much detail on specific types of amber, legal aspects in the trade & in commerce, uses of various types of amber, etc.

3443. -----1883

Gewinnung und Verarbeitung | des | Bernsteins | von | Dr.Richard Klebs. | [orn rule] | Mit 22 Lichtdruckbildern, 1 Lithographie und 3 Holzschnitten. | [orn rule] | Königsberg. | Hartungsche Buchdruckerei. | 1883.

Supplied title: "Zur Errinerung | an das | fünf und zwanzigsjähre | Geschäfts-Jubiläum | von | Stantien & Becker. | [orn rule] | Königsberg, den 16. Mai 1883." [encl in orn frame, title part col]

8°: [1]f supplied + [2], 37, [1 blank]p; 32 photo pls bound-in at end with tissues; 1 litho pl; 3 text fig(2 fullp). Dk maroon cloth, gold orn border on front cover; similar blind dec back cover; spine unlett. Patterned pink & gray endp; maroon cloth inner hinges. 25.8 x 16.7 cm(10 1/8 x 6 1/2 in). Aeg. USGS Kunz Coll, GS 33-336.

Cont: supplied title f; tp; publ data; text; blank p; pls.

An excellent treatise of considerable historical importance because of its description of the contemporary amber industry in Prussia, treating early history, with quaint illustrations taken from early works and showing mining activities, and also the famous illustration showing amber fishers with their nets, with the text going on to give details on all aspects of occurrence, recovery, sorting, manufacture, etc. The photographs are of special interest, showing coastal views along the Baltic Sea, fishing boats and villages, factories, processing machinery, and manufacturing activities with workers.

3444. -----1888 Über die Farbe und Imitationen des Bernsteins. Schrift d phys-ökon Ges zu Königsberg, 28, 1888, 20-5. Not seen.

3445. -----1889 Aufstellung und Katalog des Bernsteins-Museums, von Stantien & Becker, Königsberg i.Pr., nebst einer kurzen Geschichte des Bernsteins, von Dr.Richard Klebs... Königsberg, Hartung'sche Buchdruckerei, 1889. 103 p. 21.5 cm. USGS Kunz Coll, GS 34-875. Not seen.

3446. -----1889 Der Bernstein und seine Geschichte... Königsberg, 1889. 8°: 50 p. [BM catalog: "Reprinted from the "Katalog des Bernsteinmuseum."] Not seen.

3447. -----1891 Guide through the collection of amber from the Amber Museum of Messrs. Stantien & Becker, Königsberg, Pr. [1891]. 8°; part of the Ger Exibition, held in London; fragmentary data from BM Cat, Not seen.

3448. -----1896 Cedarit, ein neues bernsteinähnliches Harz Canadas und sein Vergleich mit anderen fossilen Harzen. *Jb k*

Preuss geol Landesanstalt und Bergakad, 17, 1896, 199-230, Berlin 1897. Not seen.

3449. -----1900

Ausstellung Paris 1900. | [double rule] | Gruppe XI. | Klasse 63. | Sammelausstellung | der | Bernsteinindustrie. | Auf Anordnung des Preussischen Ministeriums | für Handel und Gewerbe. | [orn rule] | Führer | vom | Geschäftsleiter: Prof.Dr.Klebs, Königsberg i.Pr.

8°: 47, [1]p; Thick, pale blue paper print wrap, title on cover. 22 x 14.2 cm(8 5/8 x 5 5/8 in). JSL.

Guide to the collective exhibit of the various firms in the Prussian amber industry at the Paris Exposition of 1900. Exhibit numbers printed in margins make it easy to correlate text & specimen. While serving as a guide, this valuable booklet also provides an excellent survey of all major aspects of amber, including its natural history, geology, forms, types, inclusions, cultural history of amber, the industry, typical manufactured articles, amber varnish, and with a list of participants. G R v Bock, 1981, p 176, cites a French version; not seen.

3450. -----1904

Collective Exhibition | of the | German Amber Industrie [sic]. | Exhibited by the | Prussian Ministerial Department for Trade and Industry. | [orn] | Prof.Dr.R.Klebs, | Manager and Director. | [double rule] | Guide. | All information concerning the articles on exhibition, including their immediate | sale or negotiations can be obtained from the Director Prof.Dr. R.Klebs, or in his | absence from his assistant, Miss Margaret Richter. Business cards and complete | price lists of the various exhibits can be had free of charge on application. [Königsberg: Hartung'sche Buchdruckerei, 1904.] [At head of title: "World's fair St.Louis, 1904 | [rule]...]

8°: 60p + [1]f advert; with col postcard of Carl Tiedemann company inserted at end; map of amber shore(after Hartmann, 1677); 17 ill(photos, business cards, etc). Pale tan print wrap, mottled hue, cover title. 22.4 x 14.5 cm(8 7/8 x 5 3/4 in). Cut. USGS Kunz Coll, GS 34-802; JSL.

The final leaf insert, advertising Tiedemann's amber varnish, has pasted to it two slips coated with varnish, which, in most copies, are firmly stuck to the final text f.

The text describes the natural and cultural histories of amber with interspersions of the exhibit descriptions numbering 124. Exhibit numbers 51 to 118 are flora & fauna inclusion specimens, with the inclusions identified. There are also descriptions of the various types of articles manufactured by participating firms.

3451. -----1910 Der Bernstein und seine Bedeutung für Ostpreussen. Zur 82. Versammlung deutscher Naturforscher und Arzte; *Königsberg in der Naturforschung und Medizin*, Königsberg, 1910, 38-52. Not seen; from G R v Bock, 1981, p 176.

3452. -----1910 Über Bernsteineinschlüsse im allgemeinen und über die Coleopteren meiner Bernsteinsammlung. *Schrift phys-ökon Ges Königsberg i Pr*, 51 3, 1910, 217-42, 1 fig. Contains valuable remarks on falsification of inclusions in amber.

KLEBS, R , see ANDRÉE, K, 1927; also CASPARY, R

3453. KLEEFELD

Der Diamant. | [wavy rule] | Von | Dr.Kleefeld | in Görlitz | [wavy rule] | Mit 17 Holzschnitten. | [wavy rule] | [rule] | Berlin SW. 1876. | Verlag von Carl Habel. | (C.G.Lüderitz'sche Verlagsbuchhandlung.) | 33. Wilhelm=Strasse 33.

"Sammlung gemeinverständlicher wissenschaftlicher Vorträge,... XI. Serie. (Heft 241-264 umfassend). Heft 241."

8°: 37, [1] p; 17 fig. Pale tan wrap, title & series title on cover. 20.5 x 13 cm(8 x 5 1/8 in). Cropped. USGS Kunz Coll, GS 33-253 gives height as 21 cm. JSL.

General treatise on composition, properties, crystal forms, cutting and cutting styles, values of cut gems, rules for valuation, sources of rough gemstones, origin, and famous diamonds.

3454. -----1877

Die Edelsteine | [orn rule] | Von | Dr.Kleefeld | in Görlitz. | Mit 6 Holzschnitten. | [rule] | Berlin SW. 1877. | Verlag von Carl Habel. | (C.G.Lüderitz'sche Verlagsbuchhandlung.) | 33. Wilhelm=strasse 33.

"Sammlung... Heft 277."

8°: 40 p; 6 fig. Pale yellow-tan print wrap, ser title on cover; advert on other surfaces. 21.8 x 14.4 cm(8 5/8 x 5 5/8 in). Uncut. USGS Kunz Coll, GS 33-254. JSL.

As before, a popular treatment of gemstones: gemological principles, descriptions of gemstones of the "first rank," ie, diamond, corundum, chrysoberyl, spinel, topaz, beryl, zircon, followed by "second rank" gemstones garnet, tourmaline, olivine, turquoise, opal.

3455. -----1879

Die Halbedelsteine. | [wavy rule] | Von | Dr.Kleefeld | in Görlitz. | [rule] | Berlin SW. 1879. | Verlag von Carl Habel. | (C.G.Lüderitz'sche Verlagsbuchhandlung.) | 33. Wilhelm=Strasse 33. "Sammlung... XIV. Serie... Heft 334."

8°: 36 p, 1 fig. Same wrap. USGS Kunz Coll, GS 33-255. JSL.

Treats the so-called "semi-precious" stones, mostly members of the quartz family, but also opal, feldspars, lapis lazuli, malachite, rhodonite, jet, and amber(a good section).

KLEIN, A A, see KRAUS, E H, et al, 1942

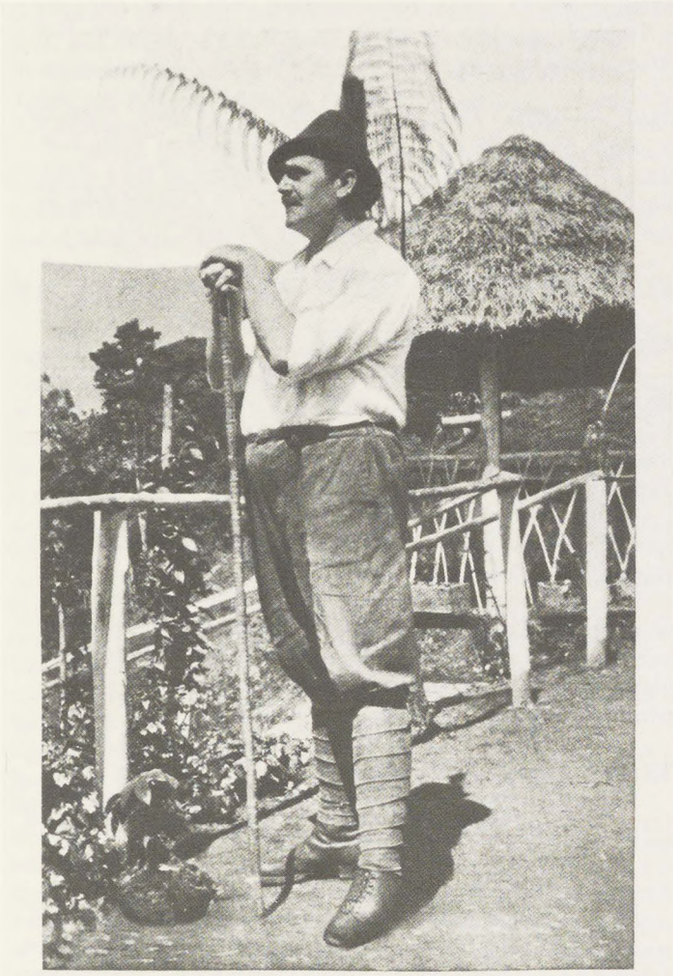
KLEIN, FRITZ(1882-1955)

Ger miner & buyer of gem rough; b Idar-Oberstein into family of gem dealers; traveled in Brazil & Colombia, in the latter country rediscovering Chivor emerald deposit & mining same up to 1914, when outbreak WW I forced return to Germany; returning to Chivor in 1919, found that mines under control of the Emerald Co of New York. See also remarks of R A Dominguez, *Historia... Esmeraldas Colombia*, p 156-7.

3456. -----1941

Fritz Klein | Smaragde unter dem Urwald | Meine Entdeckungs- und Erlebnisreisen | in Lateinamerika | 1941 | [taper rule] | Oswald Arnold Verlag/Berlin

8°: 285, [1 blank], [1], [1 blank]p; 17 photos & 2 maps on 8 tip-in glossy f + 3 glossy col pls of emeralds. Tan paper cloth-type paper over bds; red cloth spine; orn gold vignette & title on cover; similar orn & lett on spine. Te stained red. Dj black, white lett, col emerald, pale gray sketch map; resume. 20.3 x 13.3 cm(8 x 5 1/4 in). Cut. Press run 25,000 copies. JSL.



Der Verfasser auf der Mine von Chivor
vor dem von ihm erbauten Wohnhaus

3456. A portrait of Fritz Klein, author of "Smaragde unter dem Urwald"

Cont: logo; tp; publ data; text tp; tab cont; 6 chs; blank p; other bks of publ; blank p.

Klein, a native of the famous gem center of Idar-Oberstein in Germany, was born into a merchant family and early in life traveled to South America in search of rough gem materials and, incidentally, adventure. The first chapter describes his Brazilian travels, especially in the Teofilo Ottoni region of Minas Geraes in 1904, which is followed by a chapter relating his experiences in Bolivia, Chile, and elsewhere in the continent. The third to fifth chapters are of greatest importance because they narrate his career as the developer and operator of the emerald mines of Chivor, Colombia which had been rediscovered recently and now were to be worked for the first time since their abandonment by Spanish landlords in colonial times. Included are excellent descriptions of host rocks, emerald occurrences, mineralogy, methods of mining, and many other valuable remarks on other aspects and problems associated with reclaiming a mine from the jungle, establishing a community of miners, and turning it all into a profitable venture. Minute details are given on the finding of the famous "Patrizius" or "Patricia" emerald crystal, now in the American Museum of Natural History in New York. The last chapter summarizes the results of mining at Chivor and the termination of his managerial duties when required to return to Germany upon outbreak of Word War I. The subsequent career of Chivor is related in Peter Rainier's *Green Fire*, which see. Klein's book is the only firsthand account that covers the initial mining of Chivor in modern times; it is accurate from all accounts, and remarkable for its freedom from sensationalism. The color plates are noteworthy; they are watercolor renditions from actual specimens of emerald crystals by the noted Idar-Oberstein artist, Walter Wild; depicted are crystals from both Muzo and Chivor, and with some from Chivor showing color zoning. Reprinted in the same year; identical but substitutes two new captions for the color plates in lieu of adverts(recto of final f).

3457. -----1951, new edit

Fritz Klein |...| 1951 | [rule] | Idar-Oberstein [priv publ]

8°: 291, [1 blank]p; 16 photos on 5 glossy f, 3 col ill of emerald crystals on 3 glossy f, all bound-in; 3 fig(sketch map, geol cross-sect, facsimile of a letter). Pale gray crumpled paper over bds, green cloth spine; gold title & rules on spine. Col dj; resume. 19.8 x 13.1 cm (7 3/4 x 5 1/4 in). Cut. JSL.

Cont: 1/2tp; tp; publ data; dedic; tab cont; sketch map; 6 chs; append; blank p.

Minor changes, particularly in first & last chs; append discusses possibility that the magnificent emerald crystal group in the Green Vaults of Dresden, acquired in 1591, is Chivor in origin; Klein gives his reasons. Col pls this edit now printed on white instead of pale yellow grounds & bear captions; photos changed considerably, some older being retained but more new ones added or substituted. Inside back cover gives author's address and states that he and his sons conduct an emerald business and cutting shop in Idar-Oberstein. Another reprint is bound in green, unfinished cloth, gold title on cover & spine; very pale flecked endp, no lett. Same dj. P size slightly larger: 20 x 13 cm(7 7/8 x 5 1/8 in).

3458. KLEIN, JOHANN FRIEDRICH CARL(1842-1907) Optische Studien am Granat. *Nachrichten Königl Ges Wiss u Georg-Augusts-Univ Göttingen*, 16, Juni 1882, 457-564, 3 engrav pls. Also sep: plain wrap, 20.1 x 13.2 cm(7 7/8 x 5 1/4 in). Cut. Pls doublep, fold. JSL. Examined thin sections of garnet crystals under polarized light to establish patterns of anomalous double refraction. Valuable and extensive review previous work, p 457-87, compares various theories, concludes patterns due to internal strains arising from non-uniform growth. Wolff, F v: Carl Klein, *Centralbl Min*, 1907, 654-61.

3459. KLEIST, WOLFRAM Eine neue Handschrift von Volmars Steinbuch. *Zs f deutsche Altertum*, 103, 1974, 185-92. Not seen.

3460. KLEIN, JOHANN(1659-1732)

Q.B.V. | Dissertatio Inauguralis | De | Jure Circa | Margaritas | Vulgò | Von dem Perlen=Recht. | Qvam | Deo Bene Adjuvante | Ex Decreto Et Autoritate | Magnifici Jctorum Ordinis | In Alma Rostochiensi | Praeside | Viro Magnifico, Praenobilissimo Atq_3 Excellentissimo | Dn.Johanne Klein/ | Jcto. Pandect. Professor. Publ. Celeberrimo, Consist | Ducal.Mecklenb. Directore Et Ad Hunc Actum | Decano

Maxime Spectabili | Nunc Etiam | Serenissimi Duc: Regent: Mecklenburg. Vocato | Consiliar Aulico Gravissimo Et Cancelariae | Justitiae Vice Directore | Dn, Patrono, Fautore, Praeceptore Atq_3 Ho- | Spite Religiose Devenerando | Pro Licentia Doctorali | Ad Diem I.Octobr. Anni 1700, | Horis Ante Et Pomeridianis In Auditoriomajori | Publicae Eruditorum Disqvisitoni Submittit | Henricus Makens, Hamburg. | [rule] | Rostochii, Typis Joh. Wepplingii, Univ. Typogr.

4°: [1], [1 blank], 116 p; pi, A-O^4, P^2. 10.6 x 15.5 cm(7 3/4 x 6 1/8 in). Cropped. USGS Kunz Coll, GS 34-457. Cont: tp; summ; 3 chs.

Inaugural-dissertation, Rostock, Germany: Henricus(b 1671) respondent. On the laws governing fishing for pearl-mussels in the freshwaters of Germany.

KLEIN, JOHANN, see REIMERS, TOBIAS

3461. KLEINER, G & OHLY, D Gemmen der Sammlung Arndt. *Münchner Jb d bildenden Kunst*, 3 Folge, 2, 1951, 7-31. Not seen.

3461A. KLEINER, ROBERT W L

[rule] An Exhibition of | [rule] | Chinese Snuff Bottles | from the Collection of | Mary and George Bloch | at the Galleries of | Sydney L. Moss, Ltd. | 51 Brook Street | London Wl | Monday, 12th October to Friday, 23rd October, 1987 | Catalogue by | Robert W.L. Kleiner [Hong Kong: Herald International Ltd, 1987]

8°: [9], [1 blank], 237, [3]p; over 630 col photos(includes numerous signatures). Dk blue unfin cloth, gilt title on cover & spine; v pale gray endp with overall pattern of Chinese writing. V dk blue plastic dj with gold lett & col photos. Yellow marker ribbon. 28.6 x 21 cm(11 1/4 x 8 1/4 in). Cut. ISBN 962-7287-01-6. Price ca USA $100.00. JSL.

Cont: tp; publ & editorial data; fwd by Hugh Moss; introd; text title; text in parts, each with own text title; biblio after p 237, ca 60 entries.

Of the nearly 800 bottles in the collection of the Blochs, the present catalog selects 310 examples, giving for each one or more photographs and in many instances, another small photograph of bottom signature, type bottle, where made and date, provenance and exhibition and/or publication, dimensions, materials, etc, and with excellent comments that explain why the piece is treasured. The information, coupled with the splendid photographs, make this catalog a permanent reference to all collectors of bottles. Types shown are enamels on copper, enamels on glass, jades(many fine examples in nephrite and jadeite!), glass, rock crystal and chalcedony(including other quartz varieties), various hardstones, organic materials, porcelain & stoneware, metals, inside painted rock crystal & glass.

3462. KLEMM, HUGO Beiträge zur Kenntniss des Topas und Untersuchung eines künstlichem Babingtonit. *Inaugural-Dissertation, U Jena*, 1873, 29 p. Not seen: BM Cat.

3463. KLEYKAMP, A J Verzameling M.Knoops-Terhoeven, Amsterdam. Haag, 1922. Paper: 32 p, 5 pls. 22 x 17 cm. Introd by A J Kleykamp. A catalog of 133 carved jades, mostly Ming and later. Not seen: Han-Shan Tang, London, List 30, #273, 1985.

3464. -----1922 Jade: Tentoonstelling 1922 Haag, 1922. 53 p, 10 pls(1 col). 22 x 17 cm. Paper. Introd by Kleykamp. Not seen: Han-Shan Tang, London, List 28, #43, 1985.

3465. -----1926 Jade: Tentoonstelling 1926, Haag, 1926. 67 p, 20 pls. Paper. 22 x 17 cm. Not seen: Han-Shan Tang, London, List 28, 44, 1986. "The second exhibition of jades at the Kleykamp Gallery contains the same essay on Chinese jades as the 1922 catalogue, but the objects are different."

KLIMOVSKA, L K, see GRUM-GRZHIMAILO, S V, et al

3466. KLOBIUS, JUSTUS FIDUS

Ambrae | Historiam | Ad | Omnipotentis Dei | Gloriam, | Et | Hominum Sanitatem. | exhibet, | Justus Fidus Klobius D | In Academ. Witteb. | [woodcut, Mercury] | VVittenbergae, | Sumptibus Haered, D. Tobiae Mevii & Elerdi Schumacheri | Typis Matthaei Henckelii | Anno M.DC.LXVI. [1666]

4°: [8], 76 p; 4 engrav pls(3 pictorial, 1 fold map E Hemisphere). USGS Kunz Coll, GS 34-500. DeGolyer Coll, U Okla; Agassiz III, 370.

This book commonly appears in bibliographies on amber when in fact it is about ambergris, but Klobius examines both substances and notes their differences on p 26-9. One of the plates shows a frog and a lizard imbedded in amber, both of which are fakes.

KLOTZ, CHRISTIAN ADOLF(1738-1771)

Ger hist & litterateur; b Bischoffswerda; attend gymnasia Meissen & Görlitz, U Leipzig; brilliant student Greek & Roman hist & arts; many publ. *Biogr Univ* 22, 485-7.

3467. -----1768

Ueber | den Nutzen und Gebrauch | der | alten geschnittenen Steine | und | ihrer Abdrücke. | [rule] | von Herrn Klotz. | [rule] | [engrav vignette] | [rule] | Altenburg | in der Richterischen Buchhandlung. 1768.

8°: [1]f supplied + 242 p; pi, A-O^8 P-Q^4 Text engrav at head of p[1] and foot p 237; fold engrav pl bound-in facing p 238. 18.7 x 10.8 cm(7 3/8 x 4 1/4 in). Cropped. USGS Kunz Coll, GS 34-333.

Cont: tp; text; explan of fold engrav pl.

Urges study of engraved gems (or their casts) not only to appreciate ancient art but also to grasp ancient history and improve one's self, etc. Furtwängler, *Die antiken Gemmen*, 3, 417-8, believes this work is derived from Lippert's *Daktyliothek*, and as such, is a "well-meaning" attempt, from which emerges a true appreciation for the beauty, grace, and information derived from the study of engraved gems, but Furtwängler also notes that Klotz was not well-grounded in the subject, superficially inexact and verbose, and with ideas borrowed from others, especially from Lippert and Winckelman. Vinet 1630. See also Zazoffs, *Gemmensammler*, 164-8.

3468. KLUGE, KARL EMIL (1830-1864)

Handbuch | der | Edelsteinkunde | für | Mineralogen, Steinschneider und Juweliere. | [rule] | Von | Karl Emil Kluge, | Lehrer an der königl. Gewerbschule zu Chemnitz; correspondierendes Mitglied der k.k.Geol= | logischen Reichsanstalt zu Wien und der Academie imperiale des sciences, arts et belles | lettres zu Dijon, Mitglied der Deutschen geologischen

Gesellschaft zu Berlin, der natur= | forschenden Gesellschaft "Isis" zu Dresden, u.s.w. | [rule] | Nebst 11 Tabellen zur Bestimmung geschnittener Steine und 15 lithographirten | Tafeln mit 201 Abbildungen. | [logo] | Leipzig: | F.A.Brockhaus. | [rule] | 1860.

8°: XVIII, 561, [1 blank]p; 201 figs on 15 bound-in pls (some engrav, some litho, some fold); 11 ident tabs. Orig in printed wrap(not seen). 22.2 x 14 cm(8 3/4 x 5 1/2 in). Cropped. USGS Kunz Coll, GS 33-220; JSL.

Cont: 1/2tp; tp; fwd; tab cont; introd; text; append; tabs; index; pls.

A remarkably thorough work, incorporating far more information upon all aspects of gemology than any of its predecessors, eg, Caire, 1833, and Barbot, 1858, which see. The text is divided into two parts, the first treating the historical, scientific, and technological aspects, while the second part is descriptive but includes a series of identification tables at the end of the text. These follow the pattern established by Haüy's *Traité des caractères physiques des pierres précieuses*, 1817, that is, first entries are made by color, and then the stones are listed with their corresponding features and properties. The first part of the text is notable for a splendid section on the employment of gemstones in antiquity, p 72-81, which H Tertsch, writing historically in his *Das Geheimnis der Kristallwelt*, 1947, p 9, remarks upon appreciatively and the lengthy, highly detailed, and so far historically, the most complete description of the arts of the lapidary, p 81-139. Kluge obtained this information both firsthand and from interviewing practicioners. Topics treated: diamond cutting, facet gem styles, engraved gems, drilling, heat treatment, chemical treatment, and afterward, setting gems in mountings and commercial aspects. The first part of the text also includes the usual discussions of physical and optical properties, with considerable emphasis on testing gems for display of single or double refraction. The second part of the text is descriptive and notable for Kluge's adoption of a classification scheme wherein he divides gemstones into categories of "eigentliche Edelsteine," that is, *genuine* or perhaps "classical" would be better, and then further subdivides them into three ranks, the first including diamond, corundum, chrysoberyl and spinel, the second, zircon, topaz, beryl, garnet, tourmaline and precious opal, while the third rank encompasses cordierite, vesuvianite, chrysolite, axinite, etc. The next major classification adopted by Kluge is entitled "so-called semi-precious stones," and now encompasses gemstones in the fourth rank, namely the many varieties of crystalline and cryptocrystalline quartz, common opal, feldspar, obsidian, lapis lazuli, etc, and finishing with a useful treatment of amber. The fifth rank gemstones commence with jet and generally embrace the ornamental and massive gem materials. There are two appendices to the descriptive part, the first describing pearls and coral and the second, the identification tables previously mentioned. Because of Kluge's close connections with the German gemstone & jewelry industry, he provides in his gemstone descriptions the specific laps, abrasives, and polishing agents that are used upon each gemstone, historical remarks, pricing structure with specific values given, and remarks on extra large or famous examples of gems or other objects made from the materials in question. Only a brief bibliography of 35 entries is provided on p 2-3 but references to others appear as footnotes. The plates include a very large number of generally small illustrations of various types all crammed together in somewhat disconcerting fashion; many would have been more valuable had they been made into text figures and inserted accordingly. Among the plate figures are crystal forms, laboratory apparatus, facet styles, famous diamonds, the High Priest's breastplate, diamond cutting & lapidary machinery, engraver's bench & tools, comparative sizes of rose & brilliant cut diamonds, geodes, an Idar-Oberstein cutting shop, amber & coral, and at the end, a machine devised to bore holes in many beads at once. Rare.

3469. KLÜPPELBERG, E Die Prüfung von Brillantschliffen des Diamanten durch innere Spiegelungen. *N Jb Min*, Abt A, B-Bd 76, H 1, 1940, 71-92, 19 fig. BM(NH). Because of the difficulty of accurately checking angles during the cutting of small diamonds, a method is described for providing such checking by observing internal reflections at the stage when four main facets have been cut; discusses optical basis and appearance of reflections shown in the figures.

3470. KNAPP, FRIEDRICH

Bernstein. | [rule] | Von | Friedrich Knapp. | [orn rule] | Abh. d. Naturh. Ges. XI. Bd. [Title from wrap of offprint]

From: *Abhandlungen der Naturhistorischen Ges zu Nürnberg*, Bd 11, 1890, read at the session of May 7, 1890.

8°: p 89-130, 8 ill. 21.3 x 14.7 cm(8 3/8 x 5 3/4 in). JSL. There are 17 chs treating: nomenclature, properties, principal literature, amber in legend, amber forest, blue ground, inclusions, amber in history, mining, types of amber, trade, uses, amber in art, Romanian amber, etc. Excellent, authoritative.

3471. KNETSCH, GEORG Beiträge zur Kenntnis der Diamantlagerstätten an der Oranjemündung in Südwestafrika. *Geologische Rundschau*, Stuttgart, Bd 28, Nr 3-4, 1937, 188-207. Contributions to the geology of alluvial diamond deposits at the mouth of the Orange River in South West Africa. PJ Hugo et al, 1662.

3472. KNIGHT, ALFRED E

Amentet | An Account Of The Gods, | Amulets & Scarabs Of The | Ancient Egyptians | By | Alfred E.Knight | Author of "Lyra Christi," "Philistia and a | Soul," etc. | With a Coloured Frontispiece, 4 Plates, & 139 Illustrations | in the Text | Longmans, Green & Co. | 39 Paternoster Row, London, E.C. | Spink & Son, L$^{d.}$ | 6 King Street, St. James's, London, S.W. | 1915

Entire title enclosed in elab frame of various Egyptian deities.

8°: ix, [1 blank], [1], [1 blank], 274, [2 advert]p. Tip-in glossy col front pl; 4 other glossy b&w pls tip-in; 193 small text fig. Ribbed, violet cloth, deeply stamped in dk purple on cover(reproducing titlep in part); gold lett & rules on spine. 21.7 x 15.5 cm(8 5/8 x 6 1/8 in). Cut. Teg. In 1972, a bookseller's catalog advertised "no 24 of 100 copies" bound in 1/2 leather, apparently a special private issue by the author. JSL.

Cont: 1/2tp; front; tp; dedic; pref; tab cont; text; index; other bks.

Amentet is the fabled residence of many Egyptian gods as explained in the preface, which, among other topics, notes that this work was written to supply collectors of Egyptian antiquities and general readers with a compendium of little known facts about the Gods and amulets of Egypt. Thus the first part of text describes the gods while the second part describes sacred animals. In the last two of four parts, the amulets and scarabs are

described in their many diverse forms and in several different materials including gemstones. These are mostly depicted in the small line drawings mentioned. Interestingly written, informative, but now quite scarce.

3473. KNIGHT, C L, Editor Economic geology of Australia and Papua New Guinea; 4, Industrial minerals and rocks. *Monograph Series - Australasian Institute of Mining and Metallurgy, No 8*, 1976. P 305-24, "Precious stones," by A D Robertson, et al, with sketch maps, and "Semi-precious stones," by A D Robertson, et al, p 347-56.

3474. KNISCHKA, P O & GÜBELIN, E Synthetische Rubine mit Edelsteinqualität, isometrischen Habitus und hoher Zahl unbeschädigter Kristallflachen. *Zs Dt Gemm Ges* 29, 3-4, 1980, 155-85, 50 fig(crystal drawings, graphs, col photos); 20 refs. Examination of splendid, multifaced crystals of synthetic ruby grown by Knischka.

KNOCH, G M, see JEFFRIES, D, 1756

3475. KNOCHENHAUER, B Die Diamantgruben von Kimberley in Südafrika. *Zs Berg-, Hütten-, u Salinenwesen i dem preussischen Staate*, Berlin, 39, 1891, 261- 82. Not seen.

3476. KNOLLYS, HENRY Diamond-digging in South Africa. *Blackwood's Edinburgh Mag*, no 811, vol 150, Sept 1891, 317-33. Not seen: Southey, no 40.

KNOOPS-TERHOEVEN, M, see KLEYKAMP, A J

3477. KNOUSE, FREDERICK L Cristal de rocha no Estado do Espirito Santo. *Brasil, Dept Nac Prod Min, Div Fomento Prod Min, Avulso* 55, Rio de Janeiro, 1944, print wrap, centerstapled: 16 p, 8 photos on 2 glossy f, 2 fold maps, fold list of concessions. JSL. Geology, mineralogy, production from selected quartz crystal deposits (for electronic purposes) in the State of Espirito Santo, Brazil. GS 44-106.

KNOWLTON, FRANK HALL (1860-1926)

USA geol; b Brandon, VT; PhD Columbian(G Washington) U 1896; hon DSc Middlebury Coll 1921; duties in USNM & USGS; Copley Medal 1917; pioneered study paleoclimates; best known for numerous paleobotanical publs.

3478. -----1921 Fossil forests of the Yellowstone National Park. *US Dept Interior, Nat Pk Serv, Publs on Yellowstone Nat Pk*, Wash, DC, 1921. Print wrap. Centerstapled: 30 p, 16 fig; centerspread part col map; photo on cover. Front includ in pag but centerspread is not. 23.3 x 15.1 cm(9 1/4 x 6 in). JSL. Enormous deposits of silicified wood in trunks and fragments, some with amethyst-lined hollow centers, all collecting, however, forbidden. Location, extent, features, geology, specific sites, process of petrification, species, age, climate. Similar treatment in *American Forestry*, 19, 1913, 207-18. See also LC 14-30651 & 21-26368.

KNOWLTON, F H, see WARD, L F, 1899, & et al, 1900

KNOX, THOMAS WALLACE (1835-1896)

USA journalist, writer; b Penbroke, NH; prolific writer of popular accounts of his travels, adventure, biography. Allibone *Suppl* 2, 962; DAB, 10, 481-2.

3479. -----1873

Underground | Or | Life Below The Surface. | Incidents And Accidents | Beyond The Light Of Day; Startling Adventures In All Parts Of The | World; Mines And The Mode Of Working Them; Under-Currents | Of Society; Gambling And Its Horrors; Caverns And Their | Mysteries; The Dark Ways Of Wickedness; Prisons | And Their Secrets; Down In The Depths Of | The Sea; Strange Stories Of The | Detection Of Crime. | By | Thomas W.Knox. | Author Of "Camp-Fire And Cotton-field;" "Overland Through Asia," | "The Boy-Exiles," Etc. | [rule] | Hartford: | S.B.Burr And Hyde, | Chicago: J.B.Burr, Hyde & Co. | 1873.

8°: [2 blank]f + 942, [2 blank]p; front wood engrav pls & tissue; 129 wood engrav pls, tip-ins & includ in pag. Dk green cloth, orn frames on covers enclosing "Underground" in gold on front, blind on back. Elaborate spine dec in gold, title, volcano, miners underground, the skies. Pale tan endp. 21.8 x 14.2 cm(8 1/2 x 5 5/8 in). Cut. JSL.

Cont: 2 blank f; front; tp; publ data; pref; tab cont; ill list; 66 chs; blank f.

In the preface, Knox notes that "by interspersing the story with numerous anecdotes and incidents he has hoped to render its perusal less fatiguing," and indeed it is full of such anecdotes, many of the most lurid sort, but all of it fascinating. On the whole, his accuracy, in such places as could be verified, is of high order. Knox acknowledges his debt to other writers, notably Simonin and his *La vie souterraine*, 1867, which see, and from which he appears to have drawn much of his information on mines and miners. Gemstones figure in several chapters including 9, p 129-39, on pearls and pearl fishing, 22, p 302-13 on the Green Vaults of Dresden, 27, p 372-90, with 3 plates, on diamonds and diamond mining, and 64, p 906-17, swindles involving diamonds and sapphires in which is given a short summary of the famous diamond hoax of the Western United States, for details of which see HARPENDING. Reprinted 1879, not seen.

3480. -----1882, rev edit

The | Underground World: | A Mirror Of | Life Below The Surface, | With Vivid Descriptions Of The | Hidden Works Of Nature And Art. | Comprising | Incidents And Adventures Beyond The Light Of Day. | Interesting Sketches | Of | Mines And Mining In All Parts Of The World - Caves And Their | Mysteries - Famous Tunnels - Down In The Depths Of The Sea. | Volcanoes And Their Eruptions - Petroleum - Under- | Ground Life Of Man And The Lower Animals. | Subterranean Works Of The Ancients. | Buried Treasures, Etc., Etc. | [rule] | Profusely Illustrated. | [rule] | By | Thos. W.Knox, | Author Of "Overland through Asia," "Life and Adventures in the Orient," "Camp-Fire | and Cotton-Field, " "The Boy Exiles," etc. | [rule] | Hartford: | The J.B.Burr Publishing Co. | 1882.

8°: blank f supplied + 1016, [2 blank]p; front wood engrav pl tip-in & tissue guard; 123 wood engrav pls tip-ins; wood engrav tailpc. Pls on pale tan paper & includ in pag. Dk green cloth, bev bds, elab view of mine workings in black on front cover with black & gold title and a large Earth showing a volcano erupting and the word "World" equatorially in black. Blind frame back cover. Spine with elab dec & lett as before, but lett in both black & gold. Tan endp. 22.2 x 14.3 cm(8 3/4 x 5 5/8 in). Cut. JSL.

Cont: blank f; front; tp; publ data; pref; tab cont; ill list; 71 chs; blank f.

Revised, enlarged, rearranged. Gemological interest: pearls & pearling, Ch 9, 129-44; Russian mines, with malachite and Urals emeralds briefly described, Ch 10, 145-56; Green Vaults, Dresden, Ch 20, 302-13; Diamonds & diamond mining, Chs 25 & 26, 372-402; and diamond swindles, Ch 64, 905-15.

KO, SOKICHI, see JOURNAL OF GEOGRAPHY

KOBELL, FRANZ von, see SCHOUW, J F & KOBELL, F

3481. KOBERT, RUDOLF(1854-1918)

Ein Edelstein Der Vorzeit | Und Seine | Kulturhistorische Bedeutung. | Nach Einem Im Rostocker Altertumsverein | Gehaltenen Vortrage. | Für Ärzte Apotheker, Lehrer Der Naturwissenschaften | Und Freunde Der Kulturgeschichte. | Von | Prof.Dr.Rudolf Kobert, | Kaiserl.Russ.Staatsrat. | [rule] | Mit 36 Abbildungen Im Text Und 10 Tafeln | In Lichtdruck. | [logo] | Stuttgart. | Verlag Von Ferdinand Enke. | 1910.

8°: [4] p + 45, [1 blank]p + 10 bound-in pls + [10 advert]p; there are 36 text figs, with the 25 photos on pls(very stiff, pale tan paper). Heavy pale gray wrap, title label in grayish-blue lett pasted to cover and enclosed in single-rule white frame; white lett spine. 26.8 x 18 cm(10 5/8 x 7 1/8 in). Uncut. JSL; USGS Kunz Coll, GS 34-414.

Cont: tp; publ data; dedic; text; append; pls; adverts.

A lecture originally delivered to the Rostock, Germany antiquarian society on nephrite and its cultural-historical importance throughout antiquity. The various uses of nephrite are explained, pointing out that it was known from very early times, even in Europe where deposits of the stone were available to the primitive inhabitants. The evidences of its antiquity are derived from many sources in the literature, which Kobert cites in numerous footnotes. The appendix, p 42-5, describes nephrite objects illustrated upon the plates and are taken from specimens in the British Museum, London, the Museum of the ducal house of Gotha, and the Green Vaults of Dresden. A most interesting work that contains unusual information. The author was a German pharmacologist; NDB, 12, 247. Rev: Max Bauer, *Centralbl Geol Min*, 1911, p 431.

3482. KOCH, FRIEDRICH CARL LUDWIG & BERENDT, GEORG CARL Die im Bernstein befindlichen Crustaceen, Myriapoden, Arachniden und Apteren der Vorwelt. From Scudder, *Biblio Fossil Insects*, p 70, who gives: folio, Berlin, 1854, tp, 4, 124 pp; 17 pls,(Berendt, Bernstein, etc.), which see. Further: "edited with additions of importance by Menge. 10 Myriapoda, 123 Arachnida, and 21 Thysanura are described and figured, besides numerous others briefly described in the notes which Menge adds to nearly every species, nearly or quite doubling the extent of the text. Menge adds on pp 7-8 a list of the species in his collection. Plates 1, 2, and 15 were different in earlier impressions. Plates 16 and 17 are supplementary." See also BERENDT, G C, 1845.

KOCH, S, see DUDICHNE VENDL, M

3483. KOCH, WALTER Sprachliche Erklärung der Edelsteinnamen. *Zs f angewandte Min*, Berlin, 2, 1940, 174-98. Not seen.

KOCH, W, see HOLSTEIN, O

KÖHLER (KOEHLER) HEINRICH KARL ERNST von(1765-1838)

Ger antiquary, art connoisseur, critic; according to Furtwängler, *Die antiken Gemmen*, 3, 424-5, he was b in Saxony but was employed for much of his career in the Academy in St Petersburg; the rich, impressive original collection of engraved gems in the Hermitage is owing to him; he is mainly noted as a doubter and challenger, and very little original work emanated from him; he produced poor work himself, but unfairly criticised many other writers. See Zazoffs, *Gemmensammler*, p 191; Pogg I, 1291.

3484. -----1798

Description | D'Une | Améthyste | Du Cabinet | Des Pierres Gravées De | Sa Majesté L'Empereur | De Toutes Les Russies | [rule] | Avec Permission De La Censure | À St.Petersbourg | De L'Imprimerie Impériale | MDCCXCVIII

8°: [8], 105, [7] p; unsigned. 22.5 x 14 cm(8 3/4 x 5 1/2 in). Heavy paper wrap, marbled. Uncut. USGS Kunz Coll, GS 34-341; JSL.

Cont: 1/2tp; tp; dedic; text; tab cont; authors cited(28).

A tedious examination of various opinions that have been expressed concerning the identity of the subject portrayed upon an engraved gem in the Russian imperial cabinet, with Köhler carefully refuting all such opinions but then offering his own "novel" interpretation. The gem itself, given as an "oriental" amethyst, probably a sapphire, depicts a young man's head, laurel-crowned.

3485. -----1801 Untersuchung über den Sard, den Onyx und den Sardonyx der Alten./Göttingen: In der Dietrichschen Buchhandlung, 1801. 180 p. 20 cm. Not seen: from USGS Kunz Coll, GS 33-221; Agassiz III, 379.

3486. -----1802

Antwort | auf | die Einwürfe | gegen | die Untersuchung, | über | den Sard, den Onyx, und den Sardonyx | der Alten. | [taper rule] | Leipzig, | in der Baumgärtner'schen Buchhandlung | 1802.

8°: 221, [1 blank] p. 13.1 x 9.1 cm(5 1/8 x 3 1/2 in). Cropped. BM(NH).

Cont: tp; pref; text. Agassiz III, 379.

Continues the controversy aroused by the appearance of U F B Brückmann's essay *Ueber den Sarder, Onyx und Sardonyx*, 1801, which see, being a page by page rebuttal of arguments advanced by Brückmann in reply to Köhler's initial criticism of the work. The latter is vitriolic and calls Brückmann's work "full of errors" and depending too much upon the evidence offered by the specimens in Brückmann's personal collection.

3487.-----1810

Description | D'Un | Camée | Du Cabinet | Des Pierres Gravées | De Sa Majesté Impériale | L'Empereur | De Toutes Les Russies | À St.-Pétersbourg | De L'Imprimerie Du Sénat-Dirigeant | MDCCCX

8°: 79, [1 blank]p; front engrav pl with tissue bound-in & includ in pag + 2 other engrav pls, tissue gds, at end of text. 24.3 x 15.2 cm(5/8 x 6 in). Uncut. Thick, blotter-like paper. USGS Kunz Coll, GS 34-684.

Cont: 1/2tp; pl; tp; permission; text; blank p; pls.

3488.-----1810

Description | D'Un | Camée Antique | Du Cabinet Farnese | Conserve Autrefois Dans Le Trésor Royal | A Capo Di Monte | A St.-Pétersbourg | De L'Imprimerie De Pluchart Et Comp. | 1810.

8°: 53, [1 blank]p; engrav front pl, with tissue guard, serving also as the title, bound-in. 24.2 x 15 cm(9 1/2 x 6 in). Cut. Thick blotter-like paper. USGS Kunz Coll.

Cont: 1/2 tp; pl;tp; permission; text; blank p.

3489.-----1810

Memoire | Sur | Un Camée | Du Cabinet Des Pierres Gravées | De | Sa Majeste Impériale L'Empereur | De Toutes Les Russies | Et | Sur Quelques Portraits Antiques | Julia Augusta | A St-Pétersbourg | De L'Imprimerie De Pluchart Et Comp. | 1810

8°: [4], 101, [1 blank]p; front engrav pl tip-in + 2 others, bound-in at end, one doublep, fold. 22.9 x 14.3 cm(9 x 5 5/8 in). Cut. JSL.

Cont: 1/2tp; pl; tp; approb; dedic; text; pls.

Discusses at great length the identity and significance of the figures the great cameo known as the Apotheosis of Augustus in the Bibliothèque Nationale, in Paris, as well as citing extensively from other authors who have written on this engraved gem. The remainder of the text, by far the smaller portion, discusses a cameo of Julia Augusta as depicted upon the frontispiece plate and recently acquired for the Hermitage collection in St Petersburg, as well as other engraved gems depicting Julia in other collections. The second plate depicts another Julia, in Vienna, while the third plate, folding, depicts the magnificent Apotheosis of Augustus cameo in full size.

3490. -----1851

H.K.E.Köhler's | Abhandlung | Über Die | Geschnittenen Steine Mit Den Namen | Der Künstler. | [orn] | St.Petersburg. | Druckerei der Kaiserlichen Akademie der Wissenschaften. | 1851. | [rule] | Zu Haben bei Eggers et C., Commissionairen der Akademie; | In Leipzig bei Leop. Voss. | (Preis 2R Silb. - 2 Thl- 7 Ngr.)

Band III. of his *Gesammelte Schriften*, herausgegeben von Ludolf Stephani, St.Petersburg, 1851.

8°: [4], 374, [2]p. 22.4 x 14.8 cm(8 7/8 x 5 7/8 in). Cut. USGS Kunz Coll.

Cont: series tp; tp; fwd; introd; text; sources of info; inscriptions index; subject index; corrects & addits.

The foreword, by L Stephani, notes that the last years of Köhler's life were spent preparing a work to be entitled "Ausführlichen Anleitung zur genauern Kenntniss der Gemmen des Alterthums," to be published in two parts, the second of which appears above. The text begins with a history of that branch of the engraved gem studies which concerns itself with the identification and biographies of gem engravers, and what has been written before on this subject. Errors in assigning or interpreting names from gem signatures are discussed. However, the principal part of the text is occupied with Köhler's classifications of names, including all types of falisifications and forgeries, all of it given in great detail.

3491. -----1851

H.K.E.Köhler's | Kleine Abhandlungen | Zur | Gemmen-Kunde. | [rule] | Theil I. | (Mit 2 lithographirten Tafeln.) | [orn] | St.Petersburg. | ...| 1851. |...| (Preis 1 R.50 Kop. Silb. - 1 Thl. 20 Ngr.)

Band IV. of *Gesammelte Schriften*.

8°: VI, [1], [1 blank], 238 p; 2 fold litho pls bound-in at end.

Cont: ser tp; tp; fwd; tab cont; text in 6 parts; pls.

1 "Bemerkungen über die berühmte Sammlung von geschnittenen Steinen ihro Kaiserlichen Majestät Katherina der Zweiten," with Pl I, p 1-21. Originally publ in Russ: *Journal von Russland*, Jg 2, Bd 1, 1794.

2 "Descriptions d'une Améthiste du Cabinet des Pierres Gravées de Sa Majesté L'Empereur De Toutes Les Russies," p 23-70. Originally as above, in 1798 entry.

3 "Bemerkungen über drei bis jetzt unbekannte geschnittenen Steine mit den Namen der Künstler," 71-75. Originally in *Göttingsche Anzeigen von gelehrten Sachen*, 1800, Stuck 48, p 473 ff.

4 "Description d'un vase de sardonyx antique, gravé au relief," 78-82, Originally publ sep in St Petersburg, 1800.

5 "Untersuchung ueber den Sard, den Onyx und den Sardonyx der Alten," 83-155. See entry under 1801 above.

6 "Antwort auf die Einwürfe gegen die Untersuchung, etc," 157-238. See entry under 1802 above.

3492. -----1852

H.K.E.Köhler's | Kleine Abhandlungen |... | Theil II. | (Mit 7 Kupfer- und einer lithographirten Tafel.) | [orn] | St.Petersburg. |...| 1852 | ...| (Preis 2 R. 50 Kop.Silb. - 2 Thl. 23 Ngr.)

Part of Band IV, above.

8°: VI, [1], [1 blank], 204 p; 1 litho pl, 7 engrav pls, part fold, bound-in at end except for one bound-in at end of prelims.

Cont: ser tp; tp; publ data; fwd; tab cont; pl; text; pls.

1 "Description D'Un Camée Antique," title taken from plate, p 1-20. See 1810 entry above.

2 "Mémoire sur un camée du Cabinet des Pierres Gravées du S.M.I. L'Empereur De Toutes Les Russies et sur quelques portraits antiques de Julia Augusta," with 3 pls, 21-61. See 1810 entry above.

3 "Description d'un camée du Cabinet des Pierres Gravées de sa Majesté Impériale,etc," 63-90. See entry under 1810 above.

4 "Über die neue Ausgabe der Werke und Schriften des Visconti," 91-107, litho pl. Originally in Boettiger: *Amalthea*, Bd I, 1820. E Q Visconti(1751- 1818), which see.

5 "Uber Käfer-Gemmen und etruskische Kunst," 109-204.

3493. KOHLMANN, HANS Beiträge zur kenntnis des brasilianischen Berylls. *Inaugural-Dissertation zur Erlangung der Doktorwurde.,.. Kgl.Christian-Albrechts- Universitat zu Kiel* vorgelegt von Hans Kohlmann aus Vegesack a.Weser, Kiel 1907. Issued sep from *N Jb Min*, B-Bd 25, Stuttgart, 1907, 135-81.

8°: [IV]p + p 135-81 + [1], [1 blank]p; 20 fig. Pale gray wrap. 22.5 x 14.5 cm(8 7/8 x 5 3/4 in). Cut. JSL. Brazilian beryl crystals: morphology, etch figs, tubular inclusions, optical properties; figs show crystal forms and etch figs.

3494. KOHN & SON, THEODORE A Facts about precious stones... New York, T.A.Kohn & Son [1893], [30]p ill, 13 cm. [LC:] CA 10-2534 Unrev'd. Not seen.

3495. -----1925(?)

Concerning | Precious Stones | and | Jewels | Theodore A.Kohn & Son | Jewellers | New York [nd]

8°: 45, [3 blank]p. Dk blue morocco-grained paper, gold cover title; border frame in gold; plain back cover & spine. 15.7 x 10.4 cm(6 1/8 x 4 1/8 in). Teg, others untrimmed. Heavy, textured paper. In slipcase covered with plain purple paper. JSL. Presentation slip loose.

Cont: 1/2tp; tp; tab cont; text tp; text in 8 parts; 3 blank p.

Handsomely designed & manufactured promotional booklet: general remarks on gemstones & jewels, scale of hardness, table of gemstones and their properties, list of colors vs gemstones, symbolism in gemstones, natal stones & flowers, wedding anniversaries, and a list of major historic diamonds and their weights. Reprints were issued in lesser quality materials.

3496. -----1930(?)

Concerning | Precious Stones | and Jewels | Issued by | Theodore A.Kohn & Son | Jewellers | New York

8°: [2 blank], iii, [1 blank], [1], [1 blank]p + p 7-43 + [3 blank]p. Dk blue cloth, gold-bordered cover with gold title; plain back cover & spine. Translucent paper dj; in blue slipcase. Another, in blue cloth, gold title only on cover. 15.3 x 10.3 cm(6 x 4 in). Te cut, others untrimmed. JSL.

Cont: blank f; tp; press note; tab cont; introd; 7 chs; 3 blank p.

Text almost entirely rewritten; last ch now concerns mounting gems in jewelry and replaces famous diamonds ch.

3497. KOIAVA, N Dragotsennye kamni v poeme Rustaveli. *Sbornik Rustaveli*, K 750-Letiyu "Vepkhistkaosani," Tbilisi, 1938, p 69-96. Not seen. The precious stones in the poem of the Georgian, Rustaveli.

KOKSHAROV, NIKOLAI IVANOVICH (1818-1893)

Russ mineralogist, crystallographer; b Semipalatinsk region to mining engineer father; youth spent in the alluvial gold region of Beresovsk, Urals; grad Mining Acad St Petersburg 1840; accompanied Murchison, et al, on their famous geol explorations in Russia; stud under Beaumont & others in France, Crystallography under Weiss, mineralogy under G Rose, 1842-46; returned to St Petersburg 1846, commencing teaching career; publ numerous works. The 11th vol his *Materialen*, see below, contains necrology by S von Kulibin, p 129-37; Pogg I, 1300.

3498. ----1852-1871 Materialy dlya mineralogii Rossii. *Gornoi Zhurnal*, St. Petersburg, in parts, all in Russian, eventually filling up 2,031 pages. It was separately published in book form as follows: Vol I, 1852-5 to Vol XI, 1891, all publ in St Petersburg. The next entry is the German edition that is usually seen outside the USSR.

3499. -----1853-1891

Materialen | Zur | Mineralogie Russlands | Von | Nikolai v.Kokscharow, | Berg-Ingenieur, Mitglied der R.K.Mineralogischen Gesellschaft zu St.-Petersburg | und des Naturforschenden Vereins zu Moskau. | [rule] | Erster [-Elfter] Band. | [rule] | St.-Petersburg. | Gedruckt Bei Carl Kray. | 1853.

All other vols printed by Alexander Jacobson, with similar titles but with additions of new honors, etc.

8°: 11 text vols, plus atlas vol. 23.5 x 14.8 cm(9 1/4 x 5 3/4 in). Cropped. JSL; Ward & Carozzi 1293; Dewalque 280. I: [5], 226, [3]p, numerous figs as in other volumes; II(1854-57): 373, [3], [2 blank]p; III(1858): 394, [5]p, includes Tafel A, fold, of topaz crystal; IV(1862): 400, [4] p, includes Tafel B, the famous fold litho pl of alexandrite crystals on matrix in full size; V(1866): 397, [4]p; VI(1870): 407, [1]p, with fold pl; VII(1875): 384, [1]p; VIII(1878): 432, [2]p; IX(1884): 365, [3]p; X(1888): 350, [2]p; XI(1891): 137, [1]p & index to all vols, dtd 1853-1892,comprising [1], [1 blank], XI, [1 blank]p, this last vol containing memorials to Koksharov by his son and by Kulibin. Atlas volume(1853): title f, 87 litho pls of crystal forms and some natural crystals on thick, stiff paper, 27.2 x 21.5 cm(10 3/4 x 8 1/2 in), GS 5-491.

The materials on Russian minerals were gathered by the author until they were deemed sufficient to adequately describe any species and then sent to press with the result that there is no order in the presentation. Indeed, the entire work should be considered as a compilation of notes with the frequent insertion of additional matter to that previously published throughout the eleven volumes, and one must therefore consult the main index if he is to be sure of finding all the material devoted to any single mineral. The publications of Koksharov reflect his overriding interest in crystallography, which is evident from the space devoted to meticulous reporting of angular measurements of known forms and new forms discovered by him. Not surprisingly, crystal drawings comprise the bulk of illustrations. However, other data are by no means neglected and all volumes are a treasury of information on minerals of the Russian Empire, including gemstones. The latter can be found in the following places. Beryl, aquamarine, emerald, I, 147-98, II, 81(emerald), also in III, IV, VI, and VIII. Corundum, sapphire, I, 23-30, also II, IV, and VI. Euclase, III, 97-138, also IV, X. Phenakite, II, 308-44, also III, V. Topaz, II, 198-262, 344-50, also much crystallographic data in III, IV, IX, X. Chrysoberyl, alexandrite, IV, 54-88, also V, 113, VI, 225-6, X, 238-41. Rhodonite, IV, 174-89. Amazonite, V, 126-8, 329-30. Diamond, V, 273-97, with descriptions and figures of the Orlov and Shah diamonds, and an account of the discovery of diamonds in the Urals also VI, 188-200, with figures & discussions of famous diamonds and price data; also 249-55, VII, 152-4, X, 87-103, diamond in a meteorite, lastly 324-9. Demantoid, VIII, 310-20. Nephrite, VIII, 411-20. Turquoise, IX, 324-7.

3500. -----1856

Über | Die Russischen Topase | Von | N.v.Kokscharow. | [rule] | (Mit 10 lithographirten Tafeln.) | [rule] | Aus den Mémoires de l'Académie Impériale des sciences de Saint-Pétersbourg. Sixième série. Sciences | mathématiques et physiques. Tome VI, besonders abgedruckt. | [orn] | St.Petersburg. | Buchdruckerei Der Kaiserlichen Akademie Der Wissenschaften, | 1856. | Zu haben bei Eggers und Comp., Commissionairen der Kaiserlichen Akademie der | Wissenschaften, und in Leipzig bei Leopold Voss. | [rule] | Preis: 1 Rbl. 20 Cop.S.= 1 Thl. 10 Ngr.

4°: 39 p; 10 litho pls(crystal drawings). Bright blue wrap, title in orn frame on front. 32.3 x 23.8 cm(12 3/4 x 9 3/8 in). Uncut. Orig pag is 359-95. JSL.GS 5-552.

Describes topaz crystals from Urals and Nerchinsk, Transbaikalia, the crystals from both places having furnished excellent cut gems. Mainly crystallographic but including details on

sources, brief description of deposits, specific gravity data, etc. Exquisitely-drawn plates. This material appears in his large work as do the other separates below.

3501. -----1860, append to above

Anhang Zu Der Abhandlung | "Über Die Russischen Topase". | (Mémoires de l'Académie, VIe Série, Sciences mathématiques et physiques, T.VI.) | Von | ...| Mit 4 Tafeln. |...| St.Petersburg, 1860. |...

However, at head of title: "Mémoires a De | L'Académie... VIIe Series. | Tome II, N°5. | [rule] |...

4°: [2], 11 p, 4 litho pls (crystal drawings, real crystals, actual size). USGS GS 13-910; JSL.

3502. -----1860, 2nd append to above

Zweiter Anhang Zu Der Abhandlung | "Über Die Russischen Topase". | (Vergl. Mémoires de l'Académie, VIe Series... Tome VI, | et VIIe Séries, Tome II.) | von |...| Mit 3 Tafeln. |...| St.Petersburg, 1860 |...

At head of title: "...VIIe Serie. | Tome III, N°4. |..."

4°: 7 p, 3 litho pls in life-size of crystals. JSL. GS 13-910.

In addition to the two appendixes given above, Koksharov published descriptions of several notable topaz crystals in the museum of the Imperial Mining Institute, St Petersburg, entitled "Beschreibung einiger Topas-Krystalle...," in the same journal, VIIe series, vol 8, no 12, 1865, p 1-7, 4 fig. Basic ref in GS 5-552; GS 13-893.

3503. -----1857

Ueber | Den Russischen Phenakit. | Von |...| Mit fünf lithographirten Tafeln. |... Sixième Série... Tome VII. besonders abgedruckt.) | [orn] | St.Petersburg. | ... | 1857. |...

4°: [2]p + 21 p; 5 litho pls(crystal drawings). Orig pag in journal is 177-97. JSL.

Describes the phenakite crystals from the Ilmen Mountains and from the Uralian emerald mines, the latter having furnished gem-quality facet grade material although this is not mentioned. Appears in his larger work, vol 2, p 308 ff, figs 1-23.

3504. -----1859

Über | Den Russischen Euklas. | Von |...|(Mit 1 Tafel) | [rule] | Gelesen am 18 Februar 1859. | [orn rule] | St.Petersburg, 1859. |...

At head of title: " Mémoires |... VIIe Serie. | Tome I, N° 10."

4°: [2], 25, [1 blank]p; 1 pl, crystal drawings. GS 13-903.

Mostly crystal forms of euclase from the gold alluvials of Bakakin in the S Ural Mts, nr Sanarka R. The crystals are large for this species, transparent, some colorless, others of a "very beautiful" bluish-green or sometimes greenish-blue color; largest crystal 24 mm long, 13 mm wide, 7 mm thick.

3505. -----1862 Beschreibung des Alexandrits. *Mémoires de l'Académie Impériale des Sciences de St.-Pétersbourg*, VII series, T.5, No.2, 1862. BM(NH). Separate in printed wrap, cover title, 19 p, text fig, 3 pls of crystal forms, one is the famous full-size lithograph of the largest & finest matrix specimen that was found in the emerald deposits of the Urals. GS 13-892.

3506. -----1863

Opisanie | Aleksandrita, | Sostavlennoe | Nikolaem Koksharnvym, |...| (s 3 tablitsami). | [orn rule] | Sanktpeterburg | V Tipographii Imperatorskoi Akademii Nauk, | 1863.

4°: [1], [1 blank], 20 p; 2 pls of crystal forms, 1 pl matrix spec. BM(NH).

3507. -----1866 Katalog russkim topazam, khranyashchimsya v Muzeume Gornogo Instituta v S.Peterburge, St Petersburg, 1866, 39 p, text ill. Not seen, from BM(NH) Cat. Catalog of the topaz crystals preserved in the museum of the Mining Institute in Saint Petersburg.

3508. KOŁACZKOWSKA, MARIA

M.Kołaczkowska | Kamienie | I Klejnoty | [logo] Warszawa 1961 | Panstwowe Wydawnictwo Naukowe

8°: 296, [1], [1 blank], [1], [1 blank]p; 4 col pls; 10 tip-in photo pls; 153 fig; 19 tab. V pale greenish-blue unfin cloth, gold title on cover & spine. Col dj. 20.8 x 14.6 cm(8 1/8 x 5 3/4 in). Cut. 2750 copies. Zlotys 48. USGS Library.

Cont: 1/2tp; tp; publ data; pref & errata slip; tab cont; introd; text; tab; biblio(p 289-90, ca 60 entries); index; blank p; publ data; blankp.

General treatment of gemstones and jewels, opening with a history of gemstones, then discussing scientific & technical matters of gemology, and including lapidary work and assembled & synthetic gemstones. The text then describes diamond and other major gemstones, those of lesser importance, the metals used in making jewelry, and descriptions of amber and pearl. There are several tables summarizing gemstone properties. The scientific portion remarkably emphasizes crystal structures and the role of coloring ions, possibly with the view of not making the text appear too frivolous to the authorities.

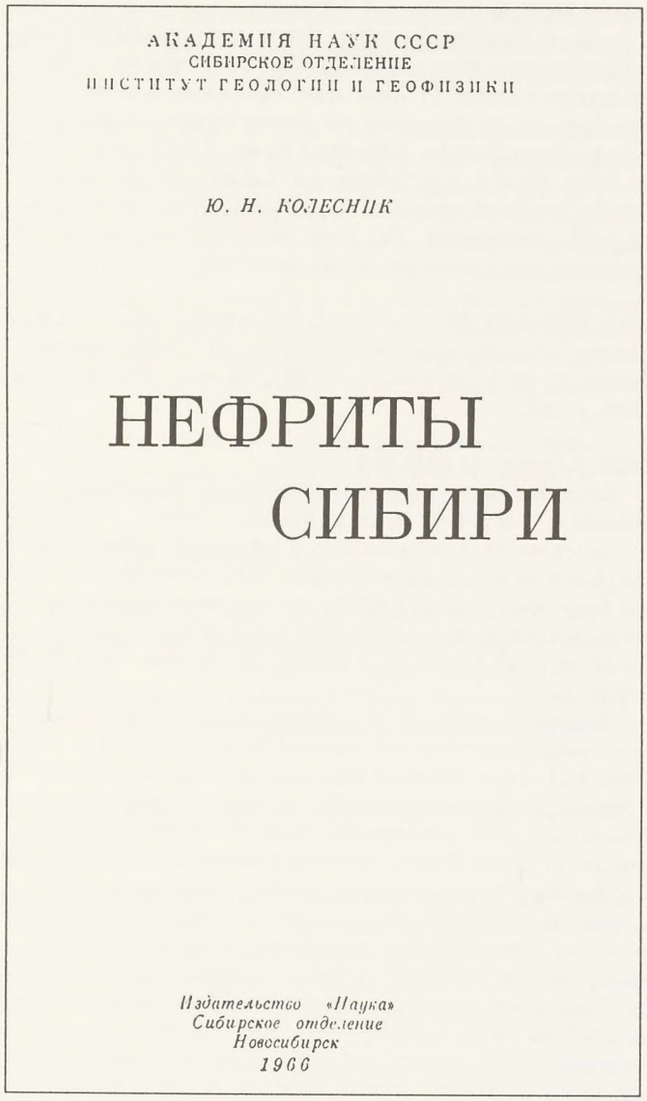
3509. KOLBE, ERNST Über die Färbung von Mineralien durch Mangan, Chrom und Eisen. *Habilitationsschrift zur Erlangung der Venia legendi der Philosophischen Fakultät der Universität zu Marburg* vorgelegt von Dr.phil. Ernst Kolbe. Stuttgart,1935, E.Schweizerbart'sche Verlagsbuchhandlung. Offprint from *N Jb Min*, B-Bd 69, Abt A, 1935, 183-254. 8°: [2] + p 183-254, 40 tabs inserted, each with accompanying absorption-curve chart, some fold. Pale gray print wrap. 22.4 x 14.6 cm(8 7/8 x 5 3/4 in). Cut. JSL. Spectrophotometric studies of manganese, chromium & iron as coloring agents in minerals; pure salts were analyzed and their absorption curves compared to those obtained from natural minerals in which these elements occurred. Natural & synthetic gemstones tested were spinels, corundums, alexandrite, blue kyanite, emerald, zircons, tourmalines, and carnelian. Biblio: p 253-4, 42 entries.

3510. KOLBERG, AUG Pytheas. Geograph.-hist. Erörterungen über das Bernsteinland der ältester Zeit. *Zs f G Ermland*, 6, 1878, 442-520. Not seen: from G R v Bock, 1981, p 176.

3511. KOLDERUP, C F Edelstenene. II. *Naturen*, Bergen, vol 32, 1908, p 365-68, figs. Not seen.

3512. KOLESNIK, YURIY NIKOLAEVICH

Akademiya Nauk SSSR | Sibirskoe Otdelenie | Institut Geologii | Geofiziki | Yu.N.Kolesnik | Nefriti | Sibiri |



3512. Titlepage to Kolesnik's "Nephrites of Siberia," in which the deposits are geologically & mineralogically described

Izdatelstvo "Nauka" | Sibirskoe Otdelenie | Novosibirsk | 1966 [at base, printed in purple: "Printed in the Soviet Union"]

8°: 149, [3]p; 56 fig(diagrs, photos, maps(1 fold)); 12 tab. Gray cloth spine, turquoise paper over bds with white, black & red lett on cover; black lett spine. 25.7 x 16.6 cm(10 1/8 x 6 1/2 in). Cut. 98 k. 1150 copies. JSL.

Cont: tp; introd; text in 5 parts; concl; biblio(p 136-45, 280 entries); append(chem analyses); tab cont; publ data; advert.

Nephrites of Siberia. Part 1 survey of worldwide occurrences as well as in USSR, with brief summaries of scientific studies of deposits and the jades themselves. 2 Petrology of the Ospinsko-Kitoiskogo massif, Siberia, in which nephrite occurs. 3 Petrographic characters of the nephrites. 4 Metasomatic processes believed to be involved in formation of nephrite and its associates. 5 Crystallo-chemical studies of tremolite-nephrite. The large bibliography contains 115 Russian-language references with the remainder in other languages, including some in English. Mainly of interest to mineralogists & petrologists; scarcely anything is said about suitability for gemstone purposes. A folding map shows the geology of the nephrite region in Siberia.

3513. -----1970, Engl transl Nephrites of Siberia. *International Geology Review*, Wash, D.C., 12, 10, 1970, 107 p, ill(includes geol map); paginated separately. Not seen.

KOLESNIKOVA, T P, see ODINTSOV, M M, et al

3514. KOLOMEISKAYA, MARIYA YAKOVLEVNA
Naturalnye i sinteticheskie almazy v promyshlennosti. Izdatelstvo "NEDRA." Moskva: 1967. Not seen. Natural and synthetic diamonds and their investigation.

KONEV, A A, see ODINTSOV, M M, et al

KÖNIG, or KOENIG, EMANUEL (1658-1731)
Swiss physician, physicist, naturalist; b Basel; MD Basel U, prof Greek 1695-1703; prof physics 1703-1711 & theoret medicine 1711-; best known for his monumental *Regnum vegetabile* of 1688, another edit 1693.

3515. -----1687

Emanuelis König | Phil. & Med. Basil. | S.R.I. Acad. Nat. Curios. Collegae, | dicti Avicenna | Regnum | Minerale, | Physicè, Medicè, Anatomicè, Chymicè, Alchymicè, | Analogicè, Theoreticè & Practicè | Investigatum, perscrutatum & erutum. | Metallorum nimirum, Lapidum, Salium, | Sulphurum, Terrarum, quin & Acidularum, | Thermarum Naturam, Ortium, Differentias, Prae- | parationes selectissimas Usúsque multiplices | candidè sistens. | [logo] | Basiliae Rauracorum, | [double rule] | Sumptibus & Typis Emanuelis & Joh. Georgii | Königl Bibliopol. | Anno M.DC.LXXXVII.

[Basel, 1687; title in red & black]

4°: [8], 192, [4]p;)(^{4}, A-Aa^4, Bb^2; 1 fig; woodcut tailpc, init, ch orns. 20.3 x 15.4 cm(8 x 6 1/8 in). Cropped. BM(NH).

Cont: tp; dedic; pref; text; list of chem symbols; index; laud.

In this rare work, König took the unusual step of inserting alchemical symbols for elements in lieu of spellings and compounds throughout the text which aside from the difficulties in reading imparts a bizarre appearance. Section 3, p 89-124, of Ch 10, treats "stones" by which term is meant many materials as figured stones and fossils in addition to minerals and gemstones. This section provides descriptions of most of the better-known species and varieties of gem materials, and on p 95, a figure is given showing diagrammatically the positions of the gemstones upon the breastplate of the High Priest and the Urim and Thummim that are associated with his vestments on the authority of Epiphanius. Precious coral is also treated on p 122-4 while amber is described on p 167-71, being further remarkable for the inclusion of several medicical recipes in which amber is an ingredient. None of the matter in this book appears to be new but rather compiled from previous authors. The second edit of 1698 is in Kunz Coll, USGS GS 34-380.

3516. -----1703, another edit, Basel

Emanuelis König, | Phil. & Med. Doct. & Prof. P. in Univers. | Basil. Acad. Leopold. Nat. Curios. | Avicennae, | Regnum | Minerale, | General Et Speciale, | Quorum illud | Naturalem Et Artificialem | Mineralium productionem cum Parallelisma Alchy- | mico verorum Philosphorum, Tractatibus

hucusque | ineditis, Commentario super Jntroitum Phi- | lalethae, & c. candidè sistit; Olim sub Nomine Regni Quarti Sulphurum | Fixorum Metallicorum promissum. | Hoc verò | Metalla, Lapides, Salia, Sulphura, Terras, | quin & acidulas, Thermas, Physicè, Chymicè, Practicè | recludit. | [orn] | Basiliae, | [double rule] | Sumptibus & Typis Emanuelis König, Senioris | Anno M.DCC. III. [title in black & red]

4°: [22], 181, [3], 428, [4]p; a^3(title f supplied?), b-c^4, A-Z^4, [A]-[Hhh]^4. Woodcut ch orns & inits. 20.1 x 15.9 cm(7 7/8 x 6 1/4 in). Cropped. USGS Kunz Coll; Ward & Carozzi 1294; GS 34-379.

Cont: tp; dedic; pref; ttr; extract; laudations; tab of symbols; Sect I text, index, append + Sects II-IV, append, index to Sects II-IV.

Section III, p 185-314, on stones as before, but now greatly enlarged. Coral on p 310-14, amber p 378-84.

3517. KONING, MARTIN

Prospecting | For Gem | Stones | In Arizona And | The Southwest | Martin Koning [1980; priv publ]

P[2]: "Copyright 1980 - ist printing May 1980 | Produced By | Arcadia Printing and Secretarial Services | Phoenix, Arizona"

Cementb: 128 p; 16 col photos on 4 glossy f(p 73-80); text fig. Col photo wrap; vita back cover. 17.7 x 12.5 cm(7 x 4 7/8 in). Cut. $4.95. First ptng 5,000. JSL. Cont: 1/2tp; publ data; tp; dedic; fwd; tab cont; 17 chs.

General remarks on conduct of a field trip, then chapters on many varieties of cryptocrystalline quartz, also crystalline varieties, opalite, thundereggs, petrified wood, garnet, peridot, copper minerals, apache tear obsidian, and a number of others. Where found, how formed, suitability for lapidary treatment. Handsomely designed & produced.

3518. KÖNNERITZ, L VON

Mittheilung | mannichfaltiger Versuche und Erfahrungen, | Edelsteine | kunstgemäss zu schleifen | und | sie in Glasflüssen täuschend ähnlich nachzubilden, | [rule] | Eine Anleitung zum Selbstunterrichte | Von | L. v. Könneritz. | [rule] | Nebst | einer Uebersicht der mehrsten schleifbaren Mineralien, | einigen Abbildungen facettirter Edelsteine und der dazu | erfordlichen Werkzeuge. | [rule] | Mit 4 lithographirten Tafeln. | [taper rule] | Weimar, 1841. | Verlag, Druck und Lithographie von B.F.Voigt.

Facing title: "Neuer | Schauplatz der Künste | und Handwerke. | Mit | Berücksichtigung der neuesten Erfindungen. |...Hundert und vierzehnter Band. | L.V.Könneritz, über Schleifen der Edelsteine. |...

8°: [2]f + p I-IV + p VIII-XVI[sic] + 166, [2]p; 4 litho pls bound in at end, 17.3 x 10.3 cm(6 7/8 x 4 1/8 in). Cut. USGS Kunz Coll, GS 33-256.

Cont: ser tp; tp; quot; ser advert(4 p); pref; tab cont; text in 6 sects; errata; advert; pls.

A remarkable work, probably the first in our modern era to include so much technical detail on the arts of the lapidary, and exceeding the early works of J R Blum in this respect. 1) Historical review of gemstone knowledge, especially concerning engraved gems and faceted gems, remarks on curious lore, recent advances in gemological knowledge. 2) Descriptions of gemstones with some scientific data included, also a glossary of gemstones & gem minerals, properties, color changes through heating, flaws, imitations and falsifications, gem trade. 3) Glasses, pastes, coloration of, cutting, also remarks on making lenses and cutting same from quartz. 4) Abrasives, polishing agents and carriers of same. 5) Work tools, equipment, accessories, laps, dops, etc. 6) Procedures for cutting all types of gemstones in many forms & styles, with descriptions of the principal facet-cut styles. All of it is sufficiently detailed to make the book a genuine handbook instead of a superficial explanation designed for public consumption. The plates show facet-cuts and lapidary equipment and accessories. A very rare work.

3519. KONNO, H On the relation between colors and trace elements of smoky quartz and amethyst. (II). *Science Reports*, Tohoku U, (III), 10, 1967, p 21-39. Not seen: *Min Abstr* 19, 2, 1968, p 138.

3520. KONOVALENKO,VASILI

V.Konovalenko | Yuvelirnye Raboty | Iz Samotsvetov | Izdatelstvo "Sovetskaya Rossiya" Moskva - 1973

Centerstapled: [33]p; 6 col pl, 1 b&w pl of author; 10 fullp col photos of objects carved by him. Stiff, cream-col wrap, gold lett front cover, and enclosed by col wrapper with photo of rough gemstones & gold title. The last p of text is carried to inside wrap. 21 x 16.5 cm(8 3/8 x 6 1/2 in). Cut. 96 k. 25,000 copies. JSL.

Descriptive catalog of 10 sculptures in gemstones and precious metals conceived and executed by the author since 1951 when he became fascinated with minerals & gemstones and determined to dedicate himself to sculpture in gem materials. The fullpage color photographs depict characters, singly or in groups, of Tsarist Russia, including peasants, servants, a beggar and his daughter, a warrior, an official, a Gypsy girl, and an ice-fisherman. Most of the sculptures are pieced together from a variety of stones including chalcedonies, compact rocks, feldspars, nephrite, lapis lazuli, sapphire, purpurine glass, etc, with gold and silver used where appropriate. The sculptures range in height from 16 to 24.5 cm(6 1/4 -9 5/8 in). They very closely resemble in style, artistry, and spirit similar sculptures done by the House of Fabergé. Introductory text & vita in Russian, English, French, German; captions in Russian but repeated in these languages afterward.

KONRAD VON MEGENBURG, see MEGENBURG

3521. KONTA, JIŘÍ Tektites in Bohemia(Central Europe) and their relation to the tektite-bearing sediments. Charles U, Prague, *Acta Universitatis - Geologica* No 2, 1966, 81-97, 11 fig, 2 tab, Pls I-XV. JSL. Occurrences of moldavites in southern Bohemia in two petrographically diverse sedimentary units, one probably Upper Miocene, the other probably Quaternary. Moldavite sites shown on map; other figures show profiles & shapes of specimens while the photos on plates depict typical moldavites and views of grounds where specimens have been found.

3522. KONTA, JIRI & SAUL, JOHN M Moldavites and a survey of other naturally occurring glasses. *J Gemm*, 15, 4, 1976, 179-204, 7 fig, 3 tab; refs 43. JSL. Emphasis placed on those glasses of interest to the gemologist and lapidary, hence most space devoted to Czechoslovakian moldavites. Theories of origin, compositions, inclusions, colors, physical properties, occurrences & searches for moldavites, use of moldavites in gemstones with

a strong appeal by the authors that specimens be set au naturel in jewelry rather than cut. Also supplies information on many other minor glasses, some very rare, and some unconfirmed.

3523. KOOLHOVEN, W C B Het primaire voorkomen van den Zuid-Borneo-diamant. *Verhandelingen v het Geologisch-Mijnbouwkundig Genootschap voor Nederland en Kolonien, Geol Ser*, Deel XI, 2.Stuk, 'S-Gravenhage, 1935, 189-232, 3 text maps, 2 fold maps at end; 8 photos, 2 tab. Also in printed wrap. 28.2 x 19.7 cm(11 1/8 x 7 3/4 in). Cut. JSL. Largely description of geology in diamond-producing areas of South Borneo; diamond in secondary deposits, p 209-15, diamond in primary deposits, p 215-28. Existence of diamond-bearing kimberlite pipe bodies confirmed in Pamali River district. Refs p 229-30, 44 entries.

3524. KOOMANS, C M On tektites and pseudo-tektites from Dutch East Indies and Philippines. *Leidsche Geologische Mededelingen*, 10, 1, 1938, 63-81. Not seen.

KOOP, A J, see ASHTON, L

3525. KOOTEN, C VAN Eerste onderzoek op diamant, Rosebel-Sabanpassie. *Surinam, Geol Mijnbouwkundige Dienst, Mededelingen* 11, 1954, 63 p(includ Engl summ), ill(maps). Paramaribo: Drukkerij "Eldorado." 27 cm. Not seen: from USGS GS 55-102. Alluvial diamonds in Surinam and possible origin.

KOPECKÝ, LUBOMÍR, see SBORNIK NARODNIHO MUSEA

3526. KOPP, HERMANN FRANZ MORITZ(1817-1892)

Der | deutsche Marmor | Bearbeitet von H.Fr.Kopp Geschäftsführer | des Bundes Deutscher Marmorbruchbesitzer e.V. | [cross] | Mit 19 Farbtafeln | einer Gebietskarte und | 18 Abbildungen | [cross] | 1939 | Eduard Pohl's Verlag, München

Edgestapled: 32 p + [1]f + 19 col pls + 16 p; 18 fig., sketch map. Pale brownish, marbled heavy paper wrap; title in brown on cover in raised lett, 20.6 x 14.9 cm(8 1/8 x 5 7/8 in). Cut. JSL.

Comments on the abundance and quality of German marbles, describes geology of deposits, marbles of the several German regions, and on the plates, depicts in color 72 varieties. The final section, separately paged, gives statistics on marble production by varietal name, locality, geological formation, color, grain size, uses, etc.

3527. KÖPPEN Vorkommen des Bernsteins in Russland. *J d Russ Unterrichtsministeriums*, Nr 8, 1893, p 301-42. Not seen: from G R v Bock, 1981, p 176.

3528. KORAGO, A A Rechnoy zhemchug. Leningrad: Nedra, 1981, 119 p. On pearls.

KORNER, T, see TINNEFELD, N

3529. KORNILOV, NIKITA IVANOVICH & SOLODOVA, YULIYA PETROVNA

N.I.Kornilov, Yu.P.Solodova | Yuvelirnie | Kamni | Pod Redaktsy | b-ra geol.-miner.nauk | N.I.Ginsburga | [logo] | Moskva "Nedra" 1982

8°: 238, [2] p; 68 ill(44 in col). Glossy white paper over bds, col photo each cover, black lett. 21.3 x 14 cm(8 4/8 x 5 1/2 in). Cut. 1 r 40 k. 60,000 copies. JSL.

Cont: tp; resume; introd; 6 chs; biblio(p 236-7, 50 entries); tab cont; publ data.

Thorough, popular work on gemstones; up to date information, but stressing the gemstones of the USSR. The first chapter reviews the history of gemstones, especially as manifested by gems and jewels in the treasures of Kremlin and Hermitage, and describing tsarist crowns, regalia, engraved gems, and the like. The second chapter treats classification, the third is on identification methods, with property tables, and followed by other chapters on cutting, and major and minor gemstones. The last chapter is on synthetic gems. Unfortunately, the color photographs are printed on matte paper and are only fair to good in quality; several show erroneous colors.

3530. -----1986 edit

...| Yuvelirnye | Kamni | Izdanie vtoroe, | perepabotannoe | i dopolnennoe | [logo] | Moskva "NEDRA" 1986

16°: 282, [3], [3 advert] p; 10 fig; 49 fig(many col) on 16 glossy f bound-in but not includ in pag. Dk green, leather-type cloth, gold title, green gem orn on cover; gold spine title & orn. 20 x 12.5 cm(7 7/8 x 5 in). Cut. 1 r 50 k. 125,000 copies. JSL.

Cont: tp; summ; pref; 6 chs; biblio(p 279-80, 50 entries); tab cont; publ & print data; advert.

Thoroughly revised, enlarged, with added material; some illustrations dropped, others added.

KORNITZER, LOUIS(1873-1946)

From back cover of *Pearls And Men*, Penguin 541, 1946, " Louis Kornitzer was born in Vienna in 1873 and came to London at the age of twenty-three, becoming a naturalized British subject in 1902. Here he was engaged in literary work for some years, and then entered the family business in Canada, America and the Far East until 1928 when he settled in London and opened his office in Hatton Garden." Kornitzer died London, Dec 10, 1946, after a long illness.

3531. -----1933

Trade Winds | By | Louis Kornitzer | Geoffrey Bles | 22 Suffolk Street, Pall Mall | London [p.[iv]: "First published in February, 1933"]

8°: vi, [2], 279, [1] p; 4 photo pls tip-in, one is front. Smooth black cloth, gold lett & logo on spine; col dj, photo of pearl necklaces front cover; flap resume, advert on back flap & cover. 21.5 x 13.5 cm (8 1/2 x 5 3/8 in). Te stained yellow. 10 s 6d. JSL.

Cont: 1/2tp; tp; publ data; tab cont; ill list; dedic; 33 chs; blank p.

Kornitzer's first book. Fascinating and eminently readable accounts of adventures as a pearl buyer in the Philippines (an especially valuable part), in Broome, Australia, and at many other places and cities in the Far East. One chapter is devoted to jade. This work established the style that was adopted for all his other books, each written in humorous, sometimes wry manner, and emphasizing the human side of the gem trade but by no means neglecting the practical and scientific aspects of the business. Rev *G & G*, 2, 5, 1937, 89. This work, much edited, appeared serially in *The Gemmologist*, London, in 12 issues: vol 19 no 223, 1950, p 36-39, to vol 20, no 234, 1951, p 19-21, each instalment ca 2-3 pp.

3532. -----1933(?) Penguin Books edit; not seen.

3533. -----1935

Pearls And Men | By | Louis Kornitzer | Author of Trade Winds | Geoffrey Bles | Two Manchester Square London | 1935 [title enclosed in double-rule frame]

8°: 254, [2 blank]p. Deep pink cloth, yellow lett on front cover & spine with logo. Dj with pearl jewel photo on cover; flap resume and prev bk on back flap; back cover advert. Te stained yellow. 20.3 x 14 cm(8 x 5 1/2 in). Be untrimmed. JSL.

Cont: 1/2tp; tp; publ data; tab cont; 27 chs; index; blank f.

Excellent, anecdotal work entirely on pearls, pearl shell, and pearl trade, with much factual information of value and worth reading on that account alone. Topics: pearls of all types, curious lore, fresh- and salt-water pearls, trade practises, world pearling grounds, pearl fishing, shell, "pearl-doctoring," impact of cultured pearl on market, famous pearls. Also serialized, much edited, in *The Gemm*, vol 16, no 187, 1947, 47-51, to 16, 197, 1947, 339-44, altogether 11 articles, each ca 3-5 pp.

3534. -----1946 Penguin Books edit.

Pearls & Men | By | Louis Kornitzer | [logo] | Penguin Books | Harmondsworth, Middlesex, England | 245 Fifth Avenue, New York, U.S.A.

P [4]: "First Published 1935, First Published In Penguin Books 1946"

16°: 205, [3 advert]p; deep pink & white wrap, resume inside front cover; portrait of author & vita back cover; advert inside back cover. 18 x 11 cm(7 1/8 x 4 3/8 in). 1 s. JSL.

Cont: identical to previous edit, even to index.

3535. -----1937

The | Pearl | Trader | By | Louis | Kornitzer | [orn] | Sheridan House | New York [title enclosed in 3-rule frame, enclosed in yellow brackets]

P[iv]: "Copyright, 1937, By Louis Kornitzer"

8°: [8], 359, [1 blank]p. Pale blue cloth, silver lett on dk blue panel on spine with silver orn border & publ name in silver. Col drawing on front of dj, with flap resume, vita, back cover advert. Te stained pale gray-blue. 23.5 x 15.5 cm(9 1/4 x 6 1/8 in). Cut. JSL.

Cont: 1/2tp; tp; publ data; tab cont; 41 chs; blank p.

The first of three parts of text describes the author's adventures while traveling as a pearl buyer, the second being on pearl trading, and the last part presents more or less factual information on the pearl, the mollusks, the pearling trade, etc. Essentially, this work creates a new book out of chapters selected from *Trade Winds* and *Pearls And Men*, brought together in logical order. Most previous chapter titles are changed and there is some revision of text; a little new material has been added. A reprint of same date, in dk blue moire-finish cloth, title in black within an elongated hexagonal frame on spine; te not stained; col dj as before. $3.50.

3536. -----1939

The Bridge Of Gems | by | Louis Kornitzer | Geoffrey Bles | Two Manchester Square London [title in double-rule frame; 1939]

8°: 256 p. Off-white unfin cloth, vertically streaked in green and horizontally in dull yellow. Red title & logo on spine. 20.2 x 14 cm(8 x 5 1/2 in). Cut; fe untrimmed. Also in pale tan cloth, with pink dj. JSL.

Cont: 1/2tp; other author bks; tp; publ data; dedic; poem; tab cont; introd; 23 chs; 4 appends; biblio(p 250-1, 33 entries); index.

Reminiscences of experiences with selling gemstones, fascinating as usual, and full of practical information for those in the trade. The appendices give brief accounts on lesser gemstones, a table of stones in the High Priest's breastplate, a horoscopic square, and an alphabetical list of the 40 most important diamonds, "specially compiled by the author," with their names, origins, weights, rough & cut, and where known, value. Also serialized in *The Gemm*, vol 17, 198, 1948, p 4-7 to 18, 210, 1949, 21-2, altogether 13 articles, each ca 3-5 pp.

3537. -----1939 USA edit, new title.

Gem Trader | by | Louis Kornitzer | Author of "The Pearl Trader" | [orn] | Sheridan House | New York [title in 3-rule orn frame; 1939]

8°: xvi, 265, [7 blank]p. Pale green, unfin cloth, gold title in spine panel; col endp of cut gems(from Whitlock, *The Story of Gems*). Col dj, resume, advert. 20.9 x 14 cm(8 1/4 x 5 1/2 in). Cut. Te stained bright yellow. $2.75. Also in smooth yellow-green cloth. JSL.

Cont: 1/2tp; tp; publ data; dedic; poem; tab cont; introd; text tp; text; appends; 7 blank p.

Entirely reset in larger type; spellings of certain words in "American" English. Rev: R Shipley, *G & G*, 3, 4, 1939, 50: "distinct disappointment after... two books on pearls... the author seems to have told the really interesting part of his story in his previous works," and noted "fantastic errors... in his excursions into the realms of science."

3538. -----1940

The Jewelled Trail | By | Louis Kornitzer | Geoffrey Bles | 37 Essex Street, Strand, London [1940]

8°: 223, [1 blank]p. Bright yellow unfin cloth, gold title on brown spine panel with publ & logo at foot in gold. Pale green dj, resume. 22.1 x 14.1 cm(8 3/4 x 5 1/2 in). Cut. Te stained purplish-gray. 8s 6d. JSL.

Cont: 1/2tp; other author bks; tp; publ data; dedic; tab cont; pref; 23 chs; blank p.

Further interesting and amusing anecdotes from the life of the author with much on individual gemstones and his experiences in buying and selling same. Serialized in *The Gemm*, vol 18, 211, 1949, 39-42 to 19, 222, 1950, 16-19, 12 articles, each ca 3-5 p. Reprinted in 1941, same cloth, but spine title, etc in dk green ink, and title bordered above & below by rules. Te not stained.

3539. -----1941 Woman's Club reprint.

The Jewelled Trail |...| The Woman's Book Club | 121 Charing Cross Road, | London, W.C .2

Aside from alterations in front matter, text printed from same plates. Pink, unfin cloth, title, etc in black panels on spine. No flyleaves. 21.2 x 13.5 cm(8 3/8 x 5 3/8 in). Cut. Te not stained. JSL.

3540. -----1941 New York edit.

The | Jeweled Trail | [star] | Louis Kornitzer | [star] | Sheridan House | [double rule] | New York [1941]

8°: [2], 280, [6 blank]p. Front glossy photo pl tip-in + 15

other glossy f pls bound-in & tipped-in(21 photos). Orange-tan cloth, blue panel on spine with gold lett & rules; blue lett at foot, Col dj, resume, other publ bks. 20.9 x 13.9 cm(8 1/4 x 5 1/2 in). Cut. Te stained gray-blue. $2.75. JSL.

Cont: 1/2tp; other author bks; front; tp; publ data; dedic; ackn; tab cont; ill list; pref; text; 6 blank p.

Entirely reset with "American" English spellings and with the addition of plates which were never present in any of the London editions.

3541. -----1952 Hatton Garden diary. From the posthumous papers of Louis Kornitzer. *The Gemm*, vol 21, no 247, 1952, p 31-4, serially to no 254, p 168-72, 8 articles, ea ch ca 3-4 pp; these anecdotes are published here for the first time.

KORNMANN, H, see KIRCHMANN, J, 1672

KORSCHELT, EUGEN (1858-1946)

Ger zoologist; b Zittau; prof U Marburg; rector Ger Zool Soc; editor *Zoologische Anzeiger*; wrote many important zool works.

3542. -----1912 Perlen und Perlenbildung. Sonderabdruck aus d *Handwörterbuch Naturwissenschaften*, Bd 7, Jena, Verlag Gustav Fischer, 1912, p 574-86, 10 text fig. Paper wrap. JSL.

3543. -----1913 Perlen, Altes und Neues ueber ihre Struktur, Herkunft und Verwertung. *Fortschritte der Naturewissenschaftlichen Forschung*, Berlin, 7, 1913, 111-90. Not seen.

3544. -----1925 Perlen und Perlmuscheln. *Handbuch der Binnenfischerei Mitteleuropas*, Stuttgart, Demoli und Maier, 5, 1925, 525-51. Not seen.

3545. KOSKOFF, DAVID E

The | Diamond | World | [orn] | David E.Koskoff | [logo] | Harper & Row, Publishers, New York | Cambridge, Philadelphia, San Francisco, | London, Mexico City, São Paulo, Sydney [1981]

Cementb: viii, [1], [1 blank], 356, [2 blank]p; 36 photos on 8 glossy f bound-in as 2 groups of 4 f each between p 118-9 and 246-7. Black cloth spine, gilt; mustard yellow paper over bds; blind logo on cover; v pale tan endp. Black dj, col photo rough diamond in matrix on front & cut diamond bach. 23.5 x 15.7 cm(9 1/4 x 6 1/4 in). Cut. $15.95. LC 81-47357; ISBN 0-06-038005-5. JSL.

Cont: 1/2tp; other author bks; tp; publ data; dedic; tab cont; quot; introd; 31 chs in 4 parts; epilog; gloss; ackn & biblio notes; index; blank f.

A survey of the entire diamond industry, from persons and organizations responsible for locating, mining, and distributing rough stones, to the cutters and the final sellers of the finished cut gem product. The first part of 15 chapters is entitled "Diamond Producers" and discusses the De Beers cartel, modern mines & miners, smuggling & illicit buying, and the effects of the Soviet diamond mining and cutting industry. The second part, chapters 16-18, describes the methods used to distribute rough, including the famous "sight" system of De Beers. The third part, chapters 19-26, deals with diamond cutters and traders of cut stones. The last part, chapters 27-31, describes selling practises, the creation and sustenance of demand, qualities of cut stones, and diamond as an investment. There is a glossary and references to the most important literature which bears upon the problem. This is an excellent and remarkably thorough survey by an author who has previously published biographies of Joseph P Kennedy and the Mellons, and is also a practising attorney. Rev D S McNeil, *JCK*, Jun 1982, p 158, "must reading;" a more detailed rev by J Thompson, ibid, Jan 1982, p 76-7; see also *J Gemm*, 20, 2, 1986, 131.

3546. KOSMOWSKA-CERANOWICZ, BARBARA, et al
Ambra - oro del Nord. Ausstellungs- katalog. Venezia, 1978. 103 p. Not seen: from G R v Bock, 1981, 176.

3547. KOSMOWSKA-CERANOWICZ, B & PIETRZAK, T Znaleziska i dawne kopalnie bursztyn w Polsce. *Opr Dokum*, 6, 1982, p 1-132. Not seen: *Zs Dt Gemm Ges*, 35, 1-2, 1986, 26.

KOSSOVE, D, see BECK, C W, et al

KOSTOV, IVAN, see SBORNIK NARODNIHO MUZEA

KOTHAVALA, RUSTAM Z, see ATKINSON, DAVID

3548. KOUŘIMSKÝ, JIŘÍ

Drahé [orn] Kameny | Slouží | Člověku [Prague: Národni Muzeum v Praze, 1961]

Edgestapled: 64 p; 8 glossy col pls, 16 b&w photos on 8 glossy f bound-in at end. Col wrap, museum logo, title on cover with col photo; garnet jewelry back cover. 20.5 x 14,6 cm(8 x 5 3/4 in). Cut. 7.80 Kčs. 2,000 copies. JSL.

Cont: tp; pref; Czech text; index; Russ, Ger, Fr, Engl summaries; pls.

"Precious Stones Serve Man" is the title of this short work which defines gemstones, provides a brief history of same, and gives remarks on their cutting and classification following which appear descriptions of gemstones with most space devoted to those native to Czechoslovakia, ie, pyrope, peridot, quartzes, moldavite, massive aragonite, marble, diamond, corundum. The booklet is designed to serve as a guide to the exhibits of gemstones in the Natural History Museum in Prague. The color plates are poor, and mainly depict rough & cut gemstones, while the b&w photos are also of rough & cut gemstones but include several countryside views.

3549. -----1968

Jiří Kouřímský; | [rule] | Katalog | Sbírky Drahých Kamenů | Národního Muzea | V Praze | [rule] | Catalogue | Of The Collection | Of Precious Stones | Of The National Museum | In Prague [1968; title in black panel]

P [160]: title given as "Drahé Kameny," press of Miloš Třeška, photos Dr.Ing.Karel Šmirous, publ by Národní muzeum v Praze, 2,000 coples, 35 Kčs, 1968"

8°: 159, [1]p; [20] glossy f with 12 col & 34 b&w photos & maps; p[2] a photo of Dr Karel Vrba. Glossy wrap, overprint in blue lett on white to form background; black panel with white title; black panel on back with blue lett. 24 x 17 cm(9 1/2 x 6 3/4 in). Cut. Loose errata slip. JSL.

Cont: tp; portr; pref(in Czech & Engl); catalog; suppls; notable gems in collection(Czech & Engl); index; publ data; pls.

The preface tells how the collection came into existence while the catalog describes the specimens in modern mineralogical classification commencing with elements, oxides, etc, and ending with silicates, but also including organics. Properties and localities given at length in Czech with brief summaries in English. Each specimen is identified as to number, weight, size, cut, etc, and provenance given where known. Color plates depict rough & cut specimens but are only fair quality; the b&w illus are better. The text is valuable for giving Czech term equivalents and descriptions of specimens from European sources, many of which are virtually unknown among readers in Western countries.

3550. -----1971

Národní Museum Praha | Prírodovédecké Museum [underlined] | [orn] Drahé kameny | Československa [Prague, 1971]

Centerstapled: 35 p + [2l]p; 9 col & 12 b&w photos. Bright red wrap, col photo of agate on cover with title. 21.1 x 14.7 cm(8 1/4 x 5 3/4 in).JSL.

Cont: tp; pref; text; abstracts(Russ, Engl, Ger, Fr); indexes; ill.

Precious stones of Czechoslovakia beginning with explanations of type deposits and the gemstones found therein in the country, and followed by foreign language summaries of the gemstones, namely beryl, quartz varieties, olivine, opal, pyrope, sapphire, moldavite, aragonite, and some minor gemstones. The color photographs are of rough & cut stones, notably of precious opals from the celebrated Dubnik locality, or the so-called "Hungarian opal," cut gems of beryl, peridot and pyrope, cryptocrystalline quartz varieties, and ornamental objects as well as jewelry pieces. The black & white photos are of rough specimens and gem mines.

3551. KOUŘIMSKÝ, JIŘÍ & KUTIL, J Příspěvek k luminescenci diamantů. A contribution to the luminescence of diamonds. *Sborník Národního Musea V Praze(Acta Musei Nationalis Pragae)*, 15, B, 5, 1959, 185-228, 5 maps, 1 fig, 10 tabs; Pls 31-40(photos). JSL. Investigated 179 diamond crystals in ultraviolet light to discover luminescence and correlate same to crystal form. Crystals from Bohemia, South Africa, Belgian Congo, Alaska(!), Brazil, Australia, but others in cut form could not be localized. Maps show diamond-producing regions while plates depict rough diamonds, some in matrix, and specimens fluorescing under irradiation. Refs: 227-8, 25. *Min Abstr* 15, 1, 1961, 33.

KOUŘIMSKÝ, JIŘÍ, see SBORNÍK NÁRODNÍHO MUZEA

KOUTIN, D P, see BELIKOV, B P, et al

KOVALSKIY, V V, see VASILEV, V G, et al

KOZLOV, I T, see BOBRIEVICH, A P, et al

3552. KOZMINSKY, ISIDORE

The Magic And Science | Of | Jewels And Stones | By | Isidore Kozminsky | Fully Illustrated | 39 Specimens In Color And 22 Other Illustrations | G.P.Putnam's Sons | New York And London | The Knickerbocker Press | 1922

8°: xv, [1 blank], 434, [2 blank]; last gathering contains 10 f. Col glossy front pl, tissue, tip-in + 12 others(5 col) tip-in; 12 fig. Pebbled, purple cloth, title in handwriting style in gold on cover with small crown & book on cover; similar gold lett spine. Teg. 20.4 x 14 cm(8 x 5 1/2 in). Fe untrimmed. $4.50. LC 22-3636. JSL.

Cont: front; tp; publ data; dedic; pref; poem; tab cont; ill list; text tp; 35 chs; blank f.

An outstanding work, comparable to Kunz's *Curious Lore* or *Magic* in respect to authenticity & accuracy of information but not so large in size. Even so, it contains a wealth of material, some of it not to be found in the Kunz works mentioned and making it a desirable complement to them. The author notes that he carefully gathered his bits of information to show that "many of the seemingly absurd narratives of old authors are but cunningly concealed truths, the unravelling of which can be followed with interest and profit." However, while many such concealments are obvious in the text, Kozminsky does not always unravel them, that being left to the reader. Older legends, many Biblical, occupy many of the initial chapters and are followed by chapters that deal with the lore of a large number of gemstones in alphabetical order. Farther on, a chapter discusses gemstones in Shakespeare's works, another treats gemological heraldry, and still another, still obscure to me, discusses the "inevitable law of transmutation." A remarkable feature is the frontispiece plate showing in color the famous "Flame Queen" precious opal from Australia, one of the very few places in the literature where it is depicted(see Parke-Bernet auction cat, 1969, col ill). Three other plates show precious opals in color and cut gems, all being rather poor in quality. This work has now become scarce.

3553. KÔZU, SHUKUSUKÉ & ENDÔ, YOSHITOSHI X-ray analysis of adularla and moonstone, and the influence of temperature on the atomic arrangement of these minerals. *Sci Rpts Tohoku Imper U*, Sendai, ser 3, 1, 1, 1921, p 1-17, Pls 1-8. Also in offprint, pale gray print wrap. 26.3 x 19 cm(10 3/8 x 7 1/2 in). JSL. Demonstrates differences in composition & structure between adularia and Ceylon moonstone; cause of color in latter probably due to fine differences in crystal structure which appears to be confirmed by recent studies.

3554. KÔZU, S & SUZUKI, M Optical, chemical and thermal properties of moonstone from Korea. Ibid, 19-23. Not seen.

3555. KÔZU, S & SETO, K Sanidine from the Eifel. Ibid, 25-32, figs. Not seen.

3556. KRAATZ-KOSCHLAU, KARL von(d 1900) & WÖHLER, LOTHAR Die natürlichen Färbungen der Mineralien. *Tschermak's Min u Petrogr Mitt*, 18, 4, 1899, 304-33, 447-68. JSL. Reviews previous work on causes of coloration in minerals and reports results of heat treatment experiments, with use of containers for trapping emanations, followed by analyses of same. Concludes that dilute coloration in following due to organic substances: fluorite, apatite, smoky quartz, zircon, amazonite, rubellite, topaz. Mixture of organic & inorganic substances causes color in apatite from Canada, amethyst and topaz from Brazil. Color solely due to inorganic substances in ruby, sapphire, spinel, beryl.

3557. KRAEMER, HANS, Editor

Der Mensch und die Erde | Die Entstehung, Gewinnung und | Verwertung der Schätze der Erde | als Grundlagen des Kultur | [orn] | Herausgegeben von Hans Kraemer in Verbindung mit: |...[14 lines of collaborators]...| Erster [-Zehnter] Band | 1. bis 50. Tausend | Berlin * Leipzig * Deutsches Verlagshaus Bong & Co. * Wien * Stuttgart [1906-13]

4°s; in ten uniformly-bound & designed volumes, each ca 400-500 p, with very many illustrations of various types: text figures, color plates, tinted plates, doublep plates, maps, etc. Stapled signatures. Full brown leather, elaborately gilt & stamped, with blind raised portions, and also with black lett-press; unique feature: rectangular bronze-like metal plaques, repoussé, of Atlas supporting the World inset in each front cover. The art of the covers is Jugendstil(Art Nouveau). Ae stained purplish-gray; gray & gold marbled endp. 28.5 x 20.4 cm(11 1/4 x 8 in). LC 7-21340. JSL.

Cont, each vol: blank f; 1/2 tp; tp; publ data; tab cont; pls list; text fig list; text; blank f. Vol | with introd; Vol X includes index to all vols.

This lavishly illustrated encyclopedia was designed to demonstrate the interplay between man and his world, with contributions from experts in the various fields that are considered. Some topics: man & animals, man & plants, forces of nature & effects upon man, explorations of the world, discovery, preparation, and application of all types of raw materials, including those derived from the earth's crust. Of interest to the gemologist are volumes V and VI which deal particularly with economical geology, and more especially Vol V, xii, 420 p, richly illustrated, and including 4 doublepage color plates of minerals & gemstones. It includes a section on the mining & treatment of precious stones and ornamental stones, p 339-420, written by Dr Adolf Miethe, professor in the Imperial Technical Highschool, Charlottenberg. This volume covers the history of jewelry and personal ornamentation, properties of gemstones, a large and thorough treatment of diamond, followed by descriptions of corundum, spinel, chrysoberyl, beryl and other gemstones, including massive types and amber, and discussions of lapidary work, false & synthetic gemstones, and gem settings in jewelry. All volumes are heavy and frequently they split along hinges or the bronze plaques become loosened from the cement which fixes them to the boards.

3558. -----1913(?), Vol V separately issued

Der Mensch | Und Die Mineralien | Herausgegeben von | Hans Kraemer | unter Mitarbeit von hervorragenden Fachgelehrten | 1. bis 50. Tausend | Deutsche Verlagshaus Bong & Co. * Berlin * Leipzig [nd]

4°: [6], 420 p; 16 tip-in col pls(6 single-f, 10 double-f and triple-f, some with tissues); 6 tip-in pls on tan paper(1 of 4 pages, others double-f); 9 tip-in b&w pls(6 double-f, one of 3 pages, 2 of four-f); 275 text fig (one double-p); 5 text inserts tip-ins on pale green paper(one of 2 p, others of 4 pages). None of the pls includ in pag. Pale tan unfin cloth, title in ruled cover frame; rules, lett, orns in panels on spine, all in blue. 28.3 x 20.2 cm(11 1/8 x 8 in). Cut. Te stained gray-blue. Ch orns. JSL.

Cont: 1/2tp; tp; publ data; tab cont; pl; 4 sects text.

Omits the plates & text figure lists; one of the two gemstone plates issued in the original set is omitted. There is an Italian version with title *L'Uomi e i Minerali*, Milan, nd, and possibly in other languages; not seen. A handsome production.

KRAFT, JAMES LEWIS (1874-1953)

Food manufacturer(Kraft Cheese); b Canada, emigrated to USA in youth, setting up a grocery business via horse-drawn wagon, eventually expanding & specializing in cheese products; in 1941 became interested in jades, especially American varieties; subsidized jade prospectors in Wyoming and California.

3559. -----1947

Adventure | In Jade | James Lewis Kraft | New York: Henry Holt And Company [1947; first 2 lines in red-brown ink]

8°: [2 blank], [9], [1 blank], 81, [2]p; tip-in col photo glossy front pl. Green cloth, gold lett spine. Col dj, resume, vita. 21.2 x 14 cm(8 3/8 x 5 1/2 in). Cut. Te stained green. JSL.

Cont: blank f; 1/2tp; front; tp; publ data; dedic; tab cont; ackn; poem; 11 chs; biblio(81, 11 entries); limited edit statement; blank p.

P 81: "Of the first 1500 copies of this book, designed by Maurice Serle Kaplan and set in Electra and Weiss types, this is number_____." Label tip-in on first flyleaf: "All the royalties... will go into a trust set up by the author for... charity."

The text is largely autobiographical and presents a side of the famous merchant seldom exposed to the public, namely his love for the arts as manifested in his special interest in jade, both the true jades and other materials that resemble jades and have been substituted for them. He recounts his experiences in seeking out sources in as many places in the United States as he could find, and was particularly fascinated by the massive idocrase of California, or "California jade," sometimes called in his honor "Kraft jade." Interspersed in the text are bits of lore on jade, and all of it forming a charming small volume of light, non-technical reading. Despite the large monetary resources available, the book is quite cheaply done and the frontispiece color plate poorly printed, almost all the specimens shown therein partaking of some shade of red. Rev: W F Foshag, *G & G*, 6, 2, 1948, 62; J A Goette, *China Monthly*, 8, 1947, 288; G M Born, 1982, 196-7. Reprintings in Oct 1952 and Dec 1956, the last textually identical but the limited edition statement supplanted by a production note; employs paler green cloth, with front col pl color corrected to green.

3560. KRAIRIKSH, BUSAYA, Editor

[Fabergé.] [There is no titlepage as such, but it may be in Thai upon the cover and upon the enclosing box. Inside of back flyleaf: "Office of Her Majesty's Private Secretary | Chitralada Palace, Bangkok, Thailand... ISBN 974-8614-85-9." Nd, post 1983]

Oblong: sewn in sections of [3] double f or [12]p each: 228 p + [1] p letterpress on text side of back flyleaf; col front portr pls of King Chulalongkorn and of the present king & queen, each pl with protective tissue; 82 col photos, 35 b&w photos, small text figs(worker's marks). Glossy col paper over bds(nephrite jade), with gold horizontal bands & title in gold on front cover only. Black dj, col photo front cover & gold frame; gold spine title. Col photo in sepia of royal palace forms both endp. Text paper semi-glossy in pale tan stock for text sections but glossy white for plate sections; text & ch heads part tan in color. 25.1 x 25.3 cm(9 7/8 x 10 in). Cut. Enclosed in strong fold box

covered with same nephrite paper as the book, and similar decor, lined with gold paper; all four sides fold over the book, with foredge flap fastened by a brass-plated magnetic clasp, and with brass corners at top and bottom foredge of this flap. No price stated. ISBN 974-8614-85-9. JSL.

Cont: portrs; pref in Thai & Engl; tab cont in T & E; prelim text in T & E; illust catalog; Fabergé workmasters, notes, gloss & refs; advisors & production team; concl(in T); colophon(?) on flyleaf.

A substantial and important collection of Fabergé pieces which feature many made from Siberian nephrite of very high quality and sometimes cut from large pieces of flawless rough as in certain boxes and carvings. There are also jewelry pieces, bibelots, and a group of the splendid enamels that the firm was noted for: portrait frames, boxes, jewelry, etc. All objects are well depicted in color. The preliminary text is an interesting political essay which shows how the Thai Royal House managed to survive throughout the last century and established useful contacts with European royal houses. There is much also on visits by members of the royal family to Russia in the period just before World War I; presumably it was during these visits that Fabergé's establishment was discovered and the royal purchases made. This book, troubled by failure to provide a useful English title with associated publishing data, appears to be scarce, at least in the West.

KRAISSL, FREDERICK, Jr (d 1986)

USA chemist; BS chem 1921 Brooklyn Poly Tech Inst; MA Columbia U 1922; MA, phil, Columbia U 1973; PhD Calif Western U 1980.

3561. -----1981

The Mechanics of Color | in Gems and Minerals | by | Frederick Kraissl, Jr. | Doctor of Philosophy in Engineering [Hackensack, NJ: Kraissl Associates, 1981]

16°: xv, [1 blank], 112 p; 8 b&w photos, 36 col photos on 8 glossy f bound-in at end & includ in pag; 20 text fig. Black, cloth-type paper over bds; gilt spine title. Black dj with col photos front cover; vita back cover. 22.8 x 15.2 cm(9 x 5 7/8 in). Cut. JSL.

Cont: 1/2tp; tp; publ data; fwd; ackn; tab cont; ill lists; introd; text; footnotes; biblio(p 87-8, 28 entries); Rohm And Haas Bull; pls.

Presents his ideas on causes of color phenomena, claiming to have "demonstrated that the universality of the subtractive theory [of color production] needed revision and the application of the formula of the Quantum Theory originated by Dr.Max Planck, better explained all phenomena from color in daylight to activation of luminescent color by ultra violet radiation." Gives details of his experiments based on examinations of glass melts to which specific ingredients have been added to produce color. Considerable extraneous matter in the text, some personal reminiscences, much speculation, and no convincing evidence that a new explanation for color in minerals has been formulated nor that older explanations are invalid. Despite the title, the only gemstones considered are corundum and opal.

3562. KRASHES, LAURENCE S

Harry Winston | The Ultimate Jeweler | By Laurence S.Krashes | Ronald Winston, Editor | [logo]

"Published in New York, New York, and Santa Monica, California, by Harry Winston, Inc. and the Gemological Institute of America. Copyright 1984 by Harry Winston."

8°: [xiv] p misnumbered because of faulty imposition + 206 p; b&w portr of Harry Winston front; 149 ill(mostly col photos & including many designer sketches of jewels). P [vii] in pale gray paper, white lion orn, purple init. Dk blue cloth, padded covers, with facsimile sig of H W on cover; gilt spine lett; pale gray endp. Dk blue glossy dj, white title & col necklace on front; logo back cover; flap resume & H W portr, col photos of earrings, Krashes vita, price. 28.1 x 21.3 cm(11 x 8 3/8 in). $49.50. ISBN 0-87311-013-7; LC 84-51658. 2,000 ord copies, 3,000 deluxe. JSL.

Cont: 1/2tp; front; tp; introd; blank p; quot; blank p; fwd; ackn; publ data; tab cont; ch tp; text; append(includes notes, biblio p 202-6, 107 entries, includ journal articles); print data.

The deluxe edition referred to above, sold @ $75.00, is textually identical but is fitted with a special, white, chatoyant endpaper and is placed in a clamshell box lined with pale blue cloth but covered with the same cloth used in the book itself and with same letterpress and facsimile signature. The dj is omitted. JSL.

This well-produced history of Harry Winston, the celebrated New York jeweler, was written by Krashes who "worked for Harry Winston, Inc. in New York for over 12 years," The first part describes Winston's background, his entry into his father's jewelry firm, the start of his own business, and its subsequent development. The second part, of much historical value, concerns the numerous famous diamond gems and diamond & precious stones jewelry pieces that Winston either handled or manufactured. The diamonds range from the Arcot gems to the Winston Heart Shape, and include such famous stones as the Hope, Jonker, Nassak, Vargas, and others, there being no less than 89 stones in this section. The third part is essentially a pictorial catalog of the many jewelry pieces that were made by Winston craftsmen from designs of in-house artists. Rev: *Industrial Diamond Quart*, 2, 41, 1985, 147.

3562A. -----1986, 2nd edit, rev; not seen

3562B. -----1988, 3rd edit, rev

Harry Winston | The Ultimate Jeweler | By Laurence S. Krashes | Ronald Winston, Editor | [logo with rule] [New York & Santa Monica, 1988]

8°: xiii, [1], 236 p; ca 188 col & b&w photos; front photo of Winston. P [vii] pale tan on one side with lion design and purple knit. Dk blue, unfin cloth with gold facs signature on cover, gold spine title & logo; gray-blue ribbed endp. Silver dj with col photos of emerald-diamond necklace, earrings, bracelet, with flap summ, vitas, captions to photos. 28 x 21.5 cm(11 x 8 1/2 in). Cut. LC 84-51658; ISBN 0-87311-018-8. $100.00. JSL.

Cont: 1/2tp; portr; tp; publ data; tab cont; quot; fwd; ackn; introd; text; notes; biblio.

Principal enlargements due to inclusion of a chapter on the Duchess of Windsor and her jewels, and additions elsewhere, but essentially retaining the same substance and format of the previous editions.

KRASOV, L M, see BOBRIEVICH, A P, et al

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